

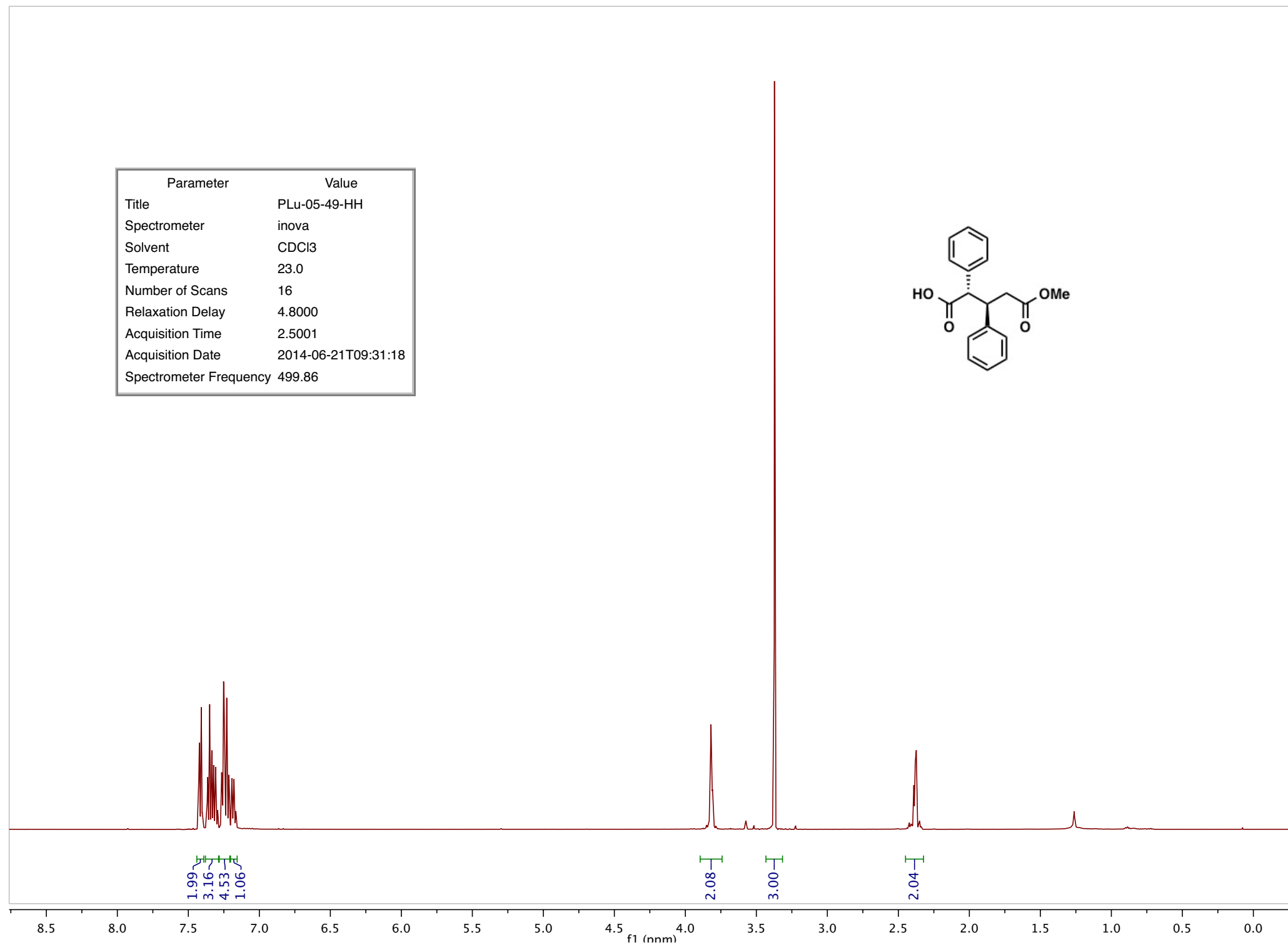
**Direct Enantioselective Conjugate Addition of Carboxylic Acids with Chiral Lithium
Amides as Traceless Auxiliaries**

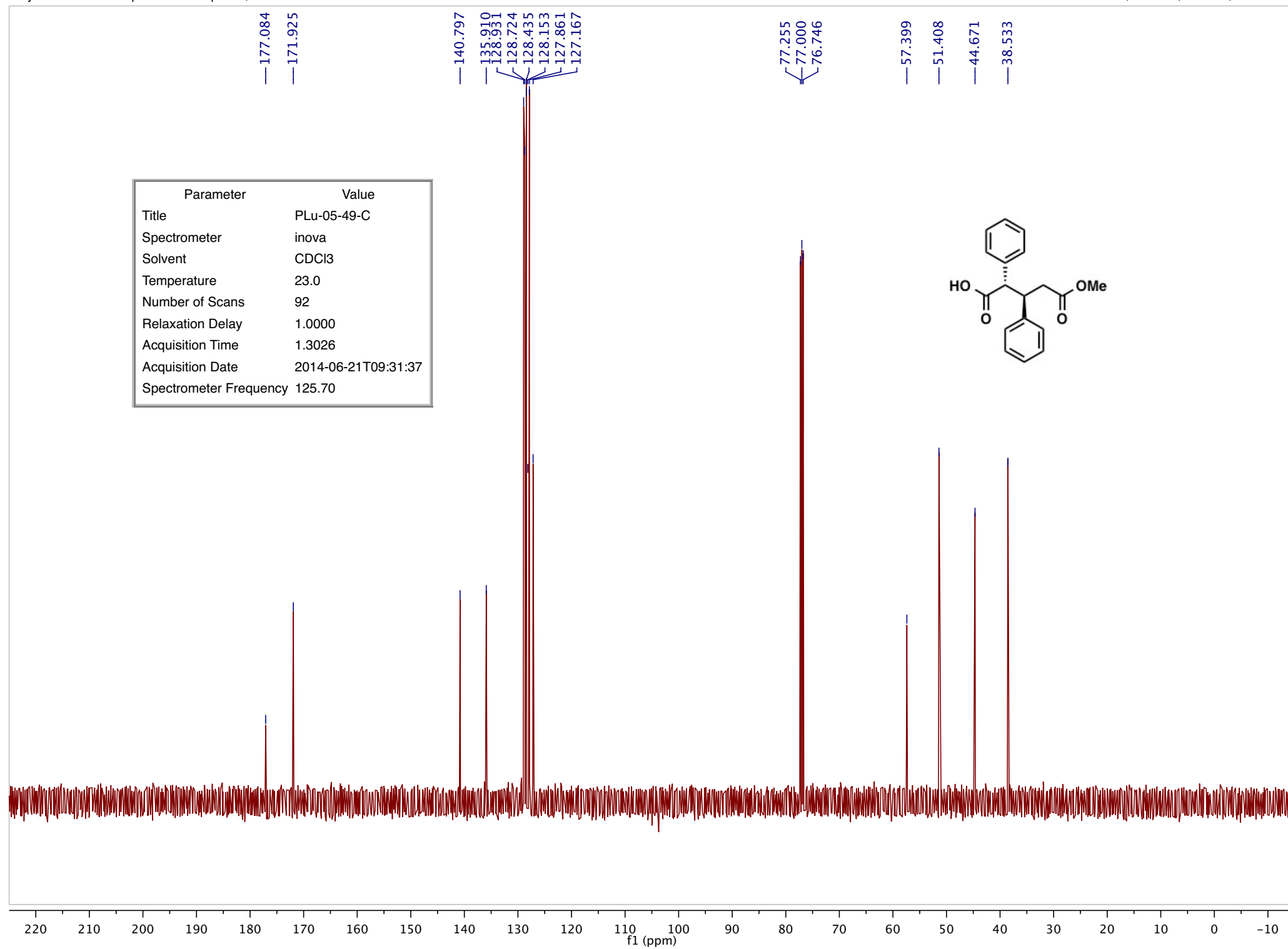
Ping Lu, Jeffrey J. Jackson, John A. Eickhoff, Armen Zakarian*

Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106

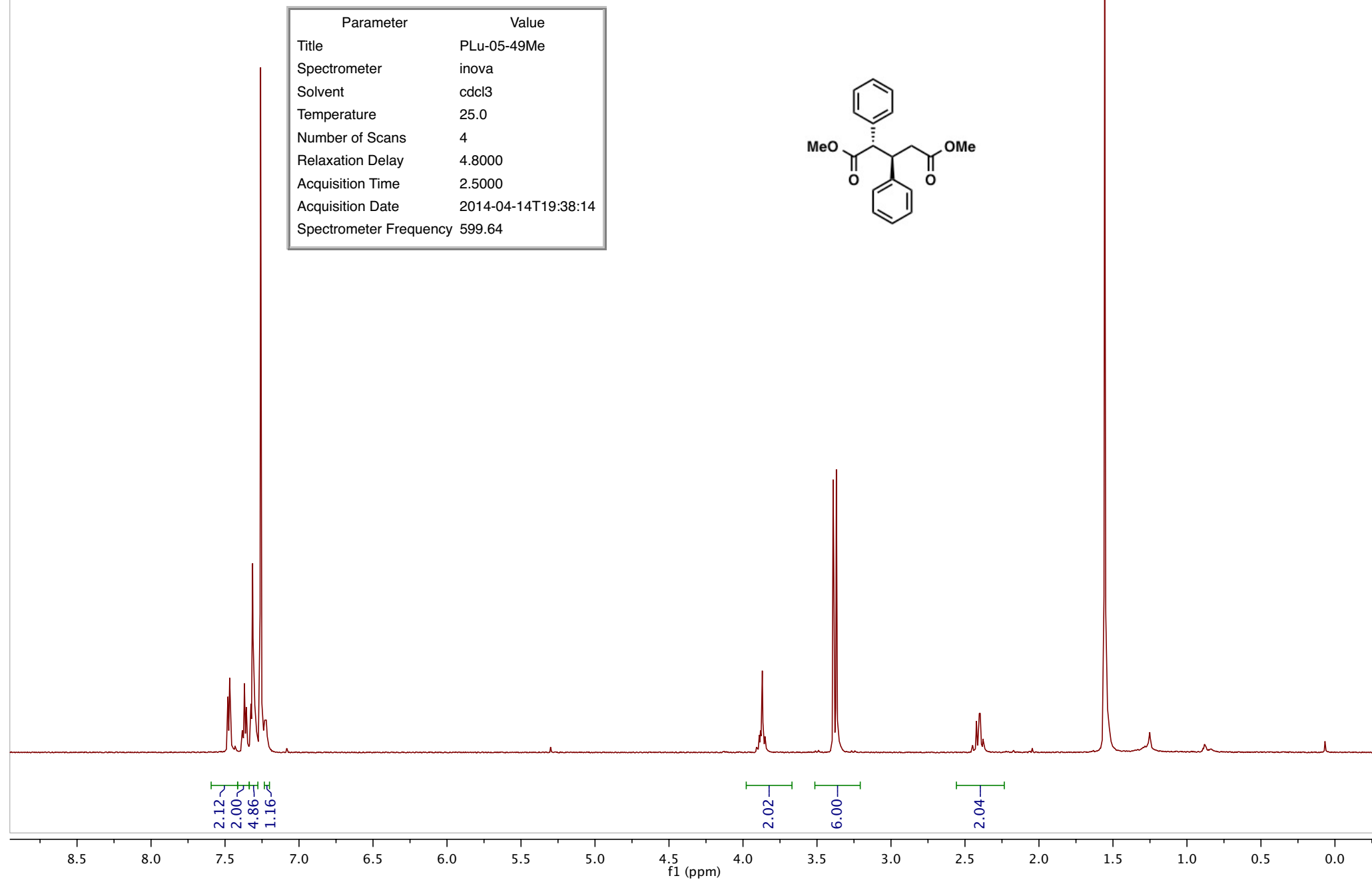
Supplementary Information 2

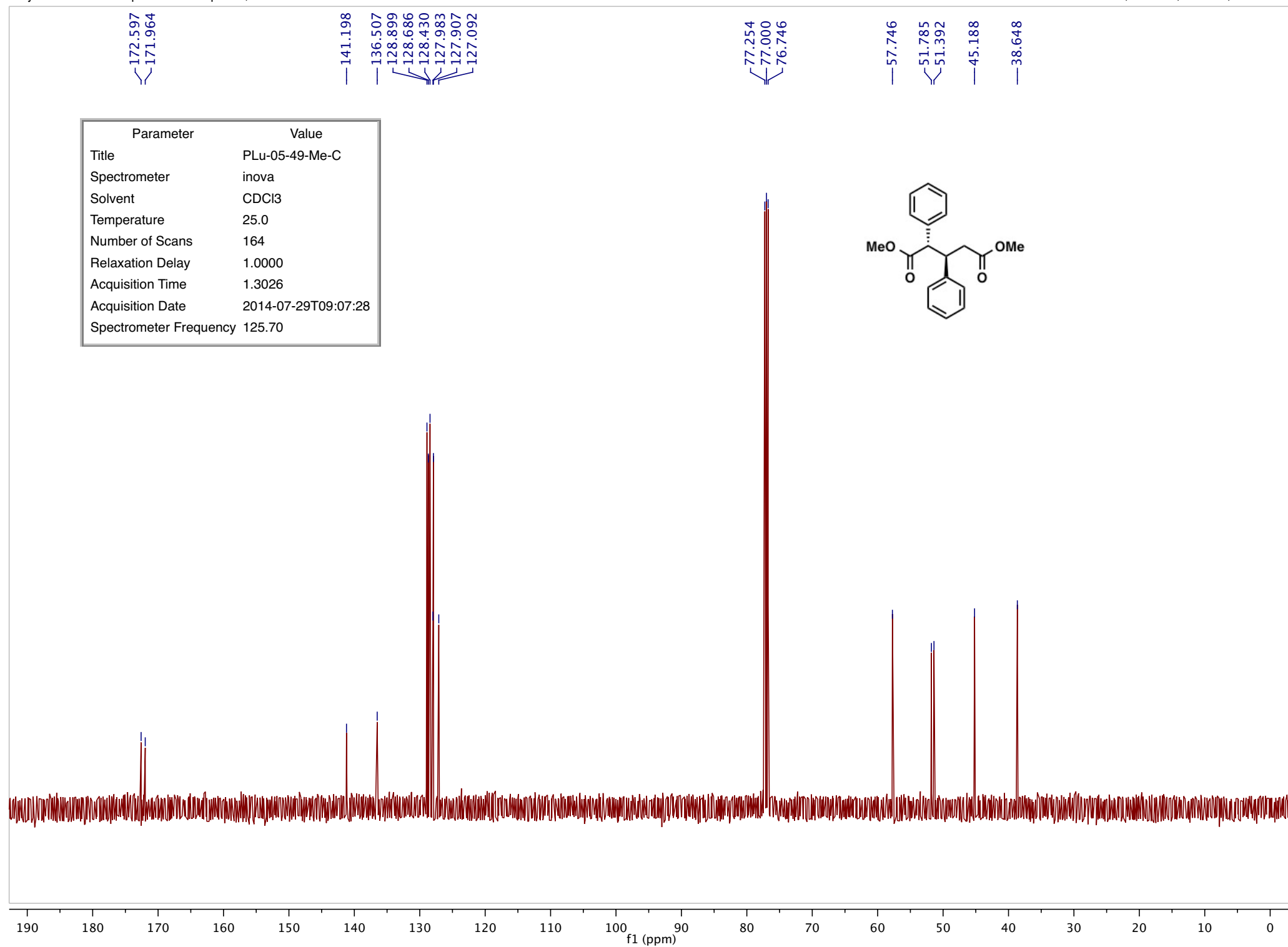
Copies of ^1H , ^{13}C , ^{19}F spectra and HPLC traces



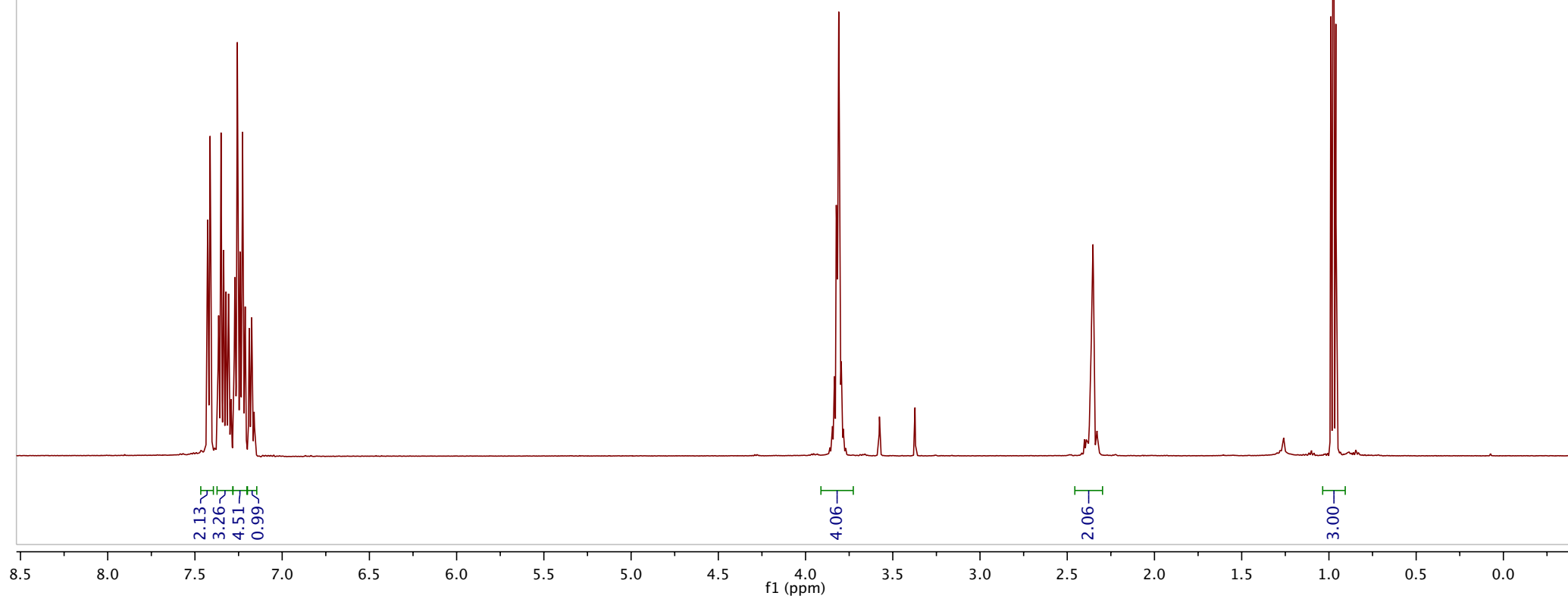
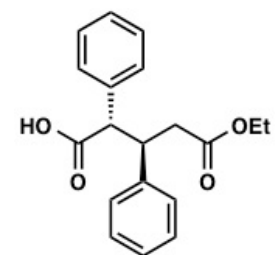


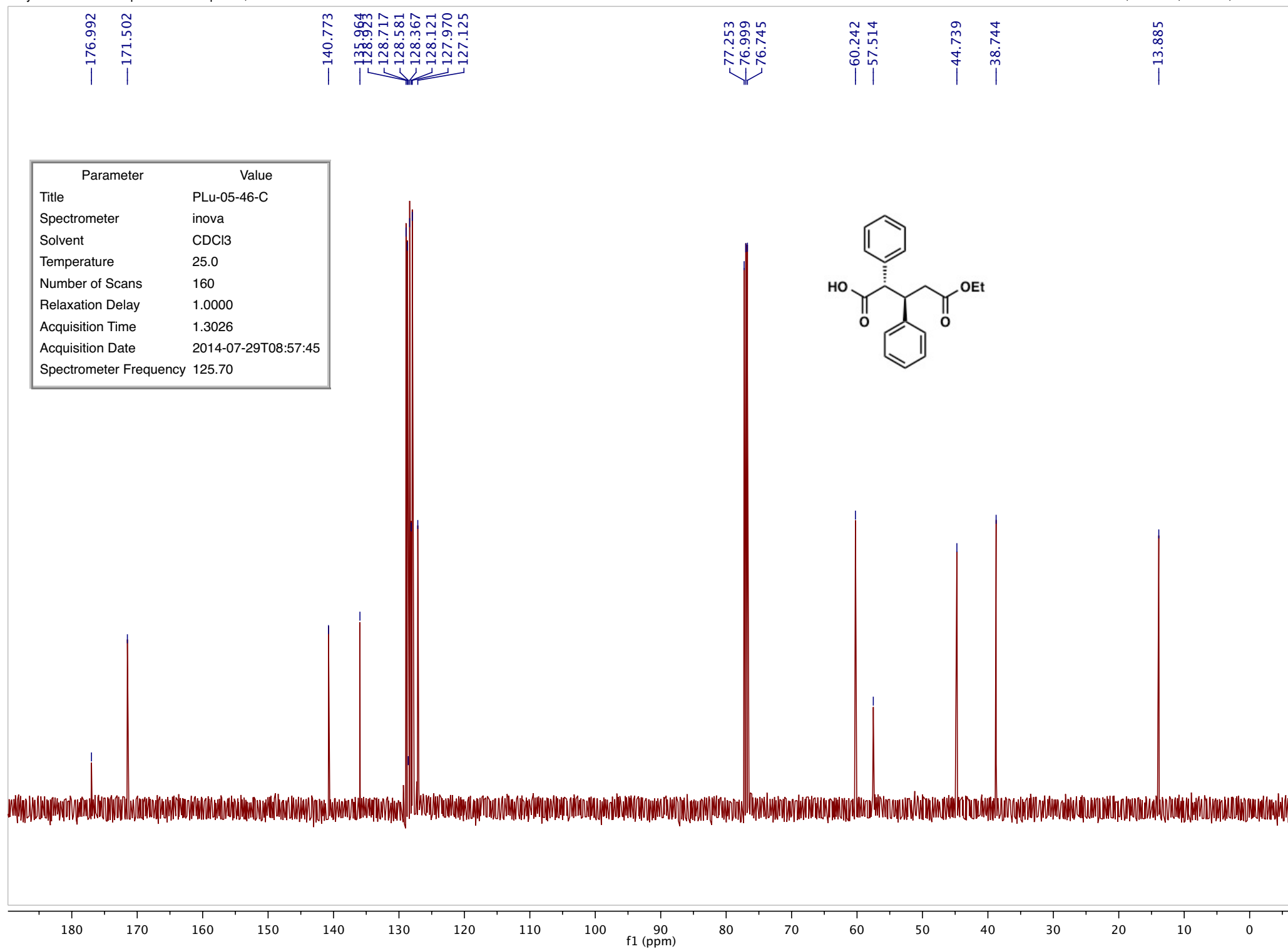
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Title	PLu-05-49-C
Spectrometer	inova
Solvent	CDCl3
Temperature	23.0
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Relaxation Delay	1.0000
Acquisition Time	1.3026
Acquisition Date	2014-06-21T09:31:37
Spectrometer Frequency	125.70

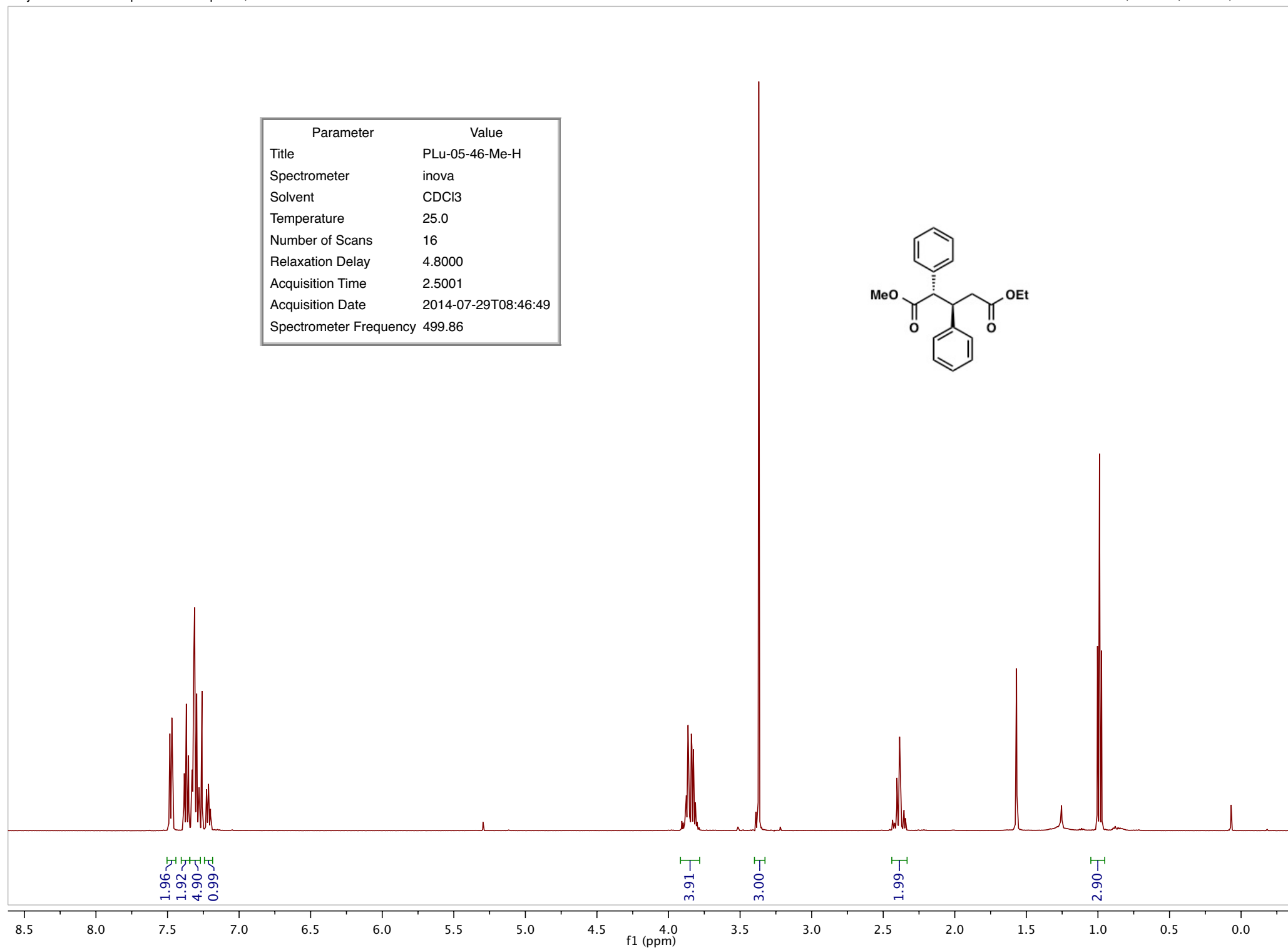


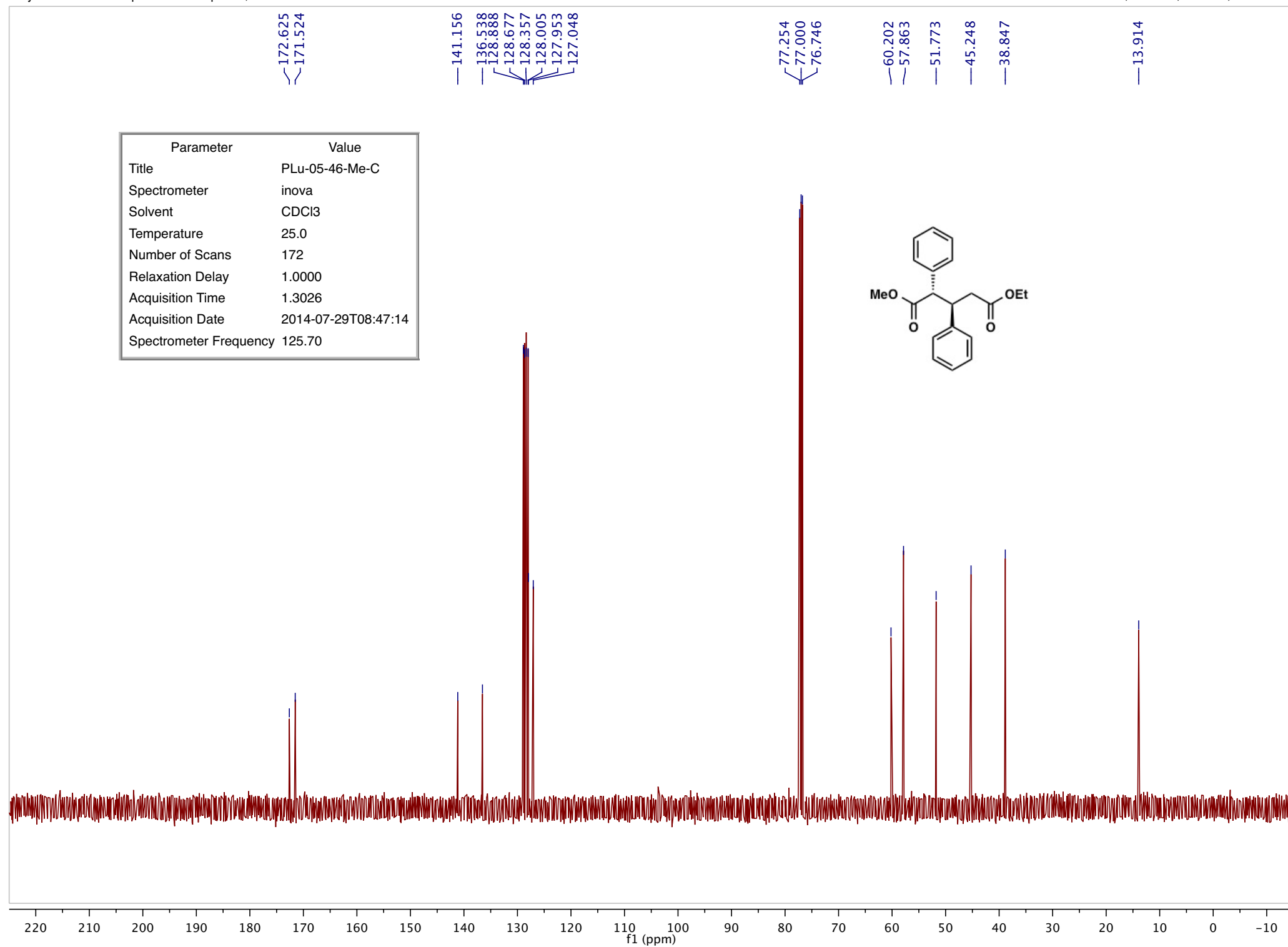


Parameter	Value
Title	PLu-05-46-HH
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
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Acquisition Date	2014-07-29T08:57:13
Spectrometer Frequency	499.86

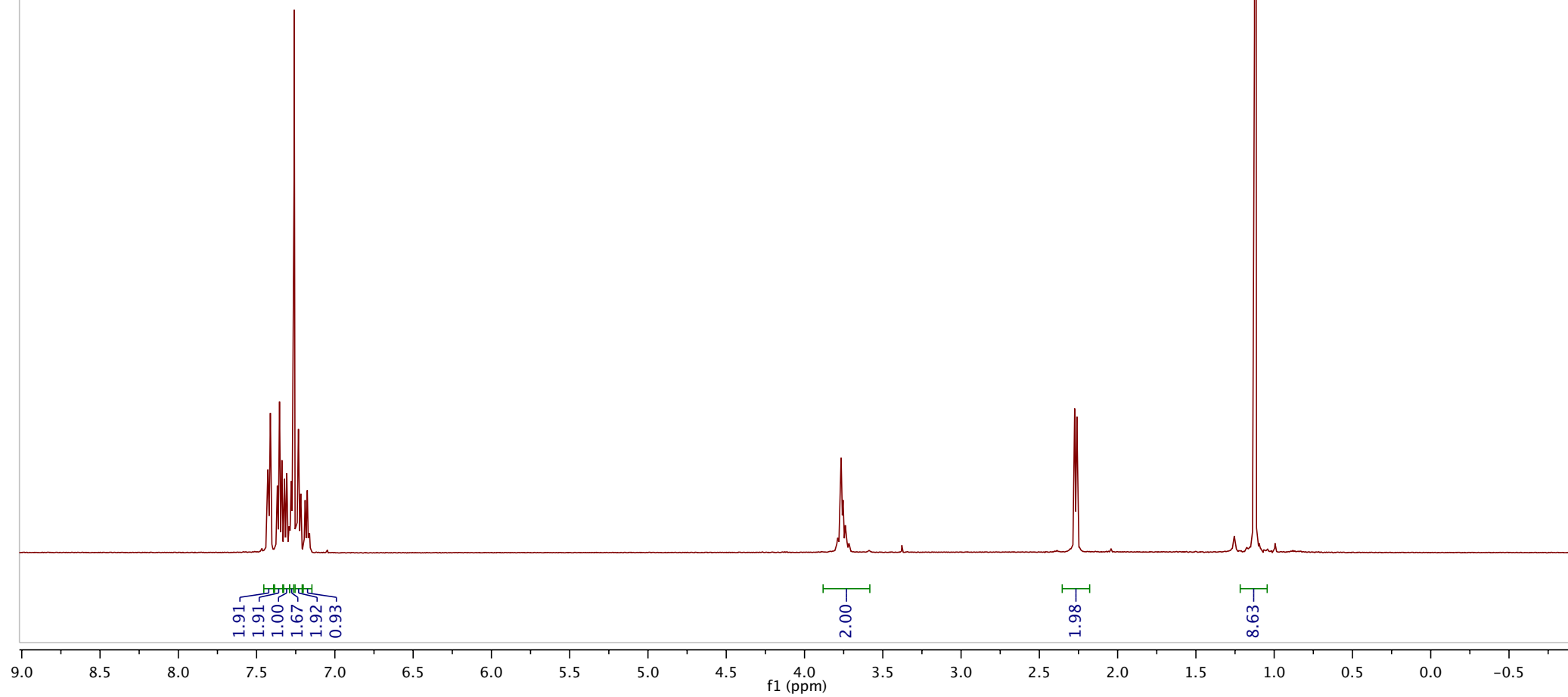
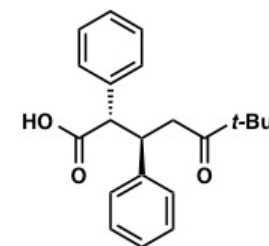


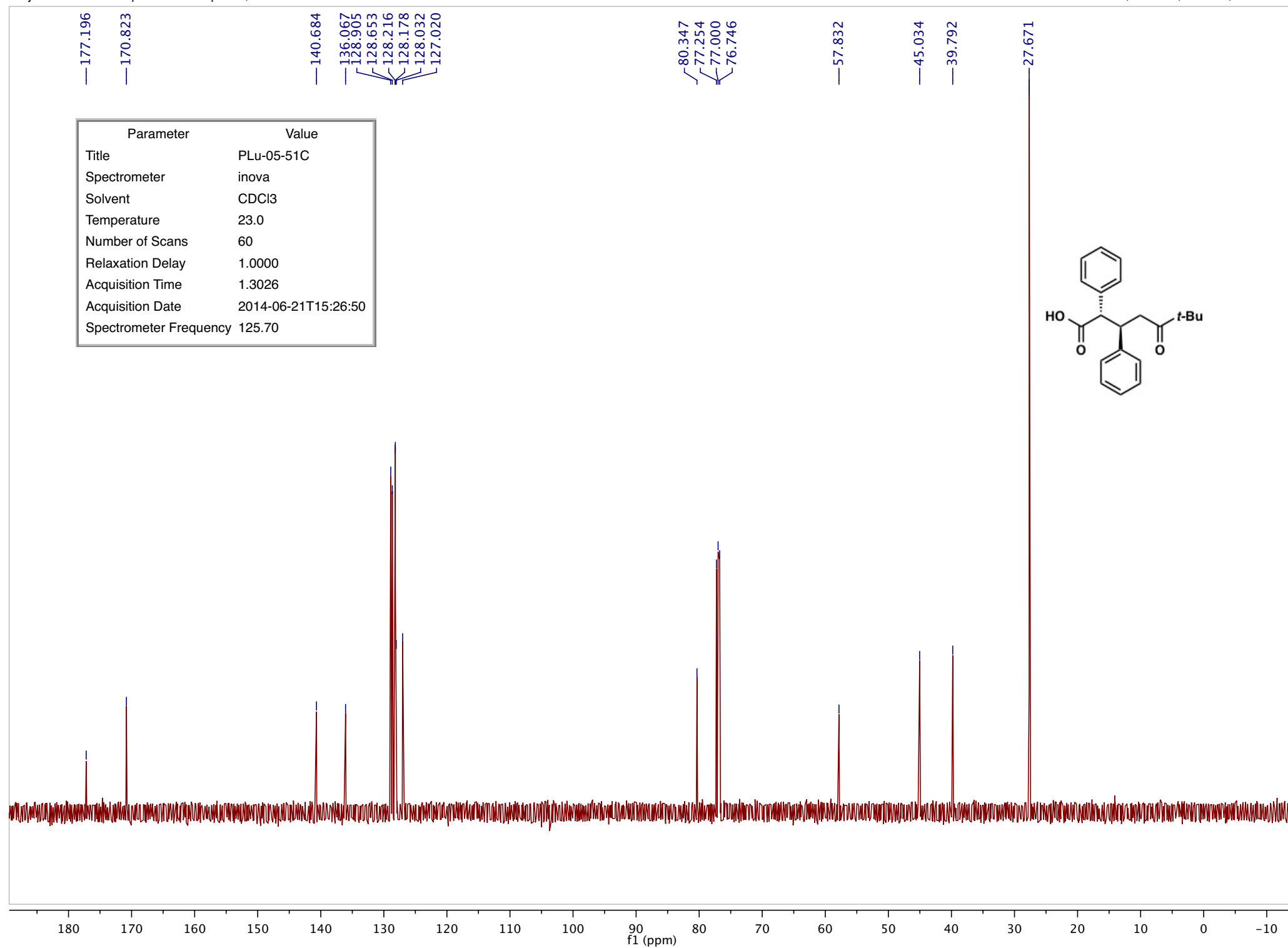


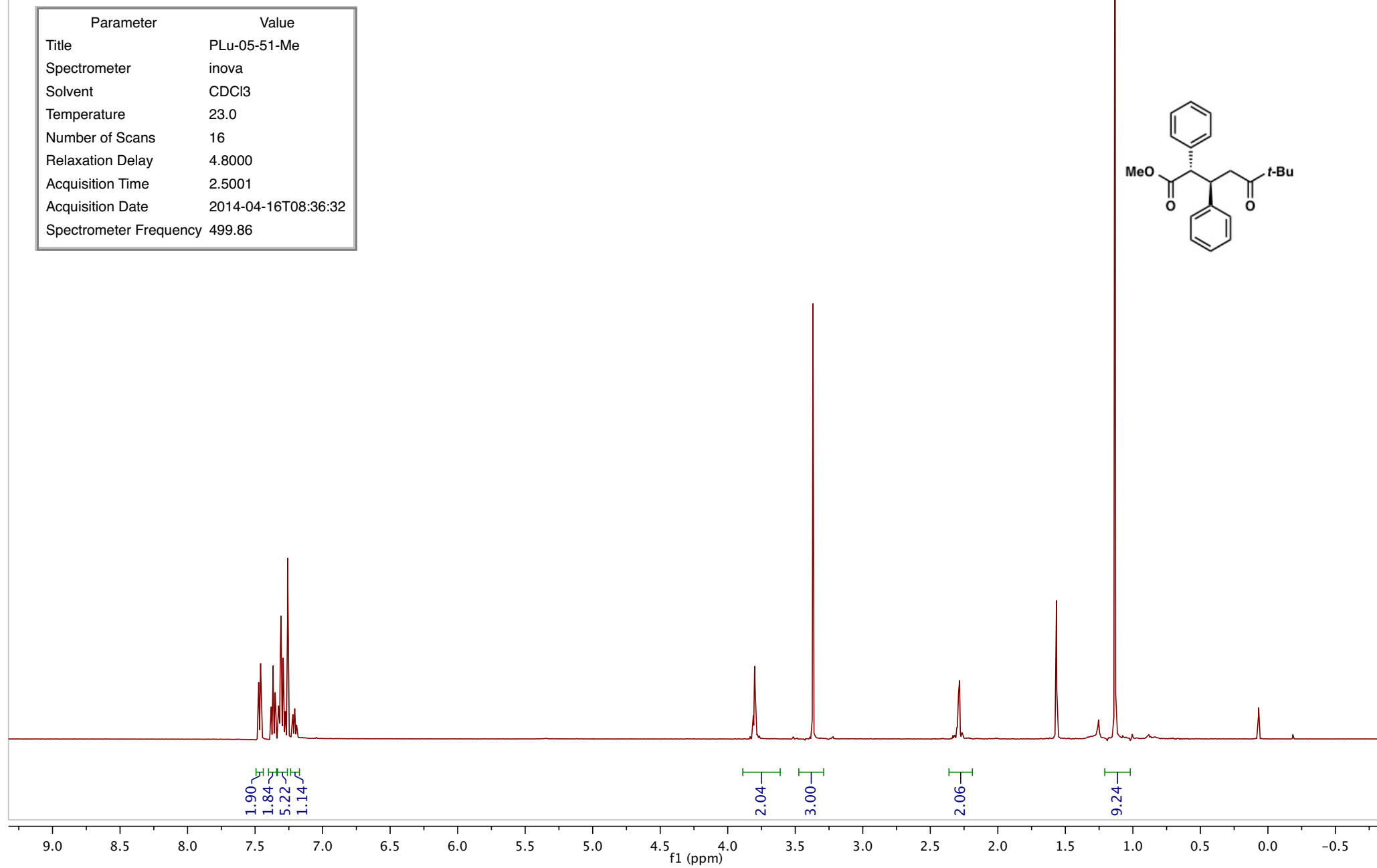


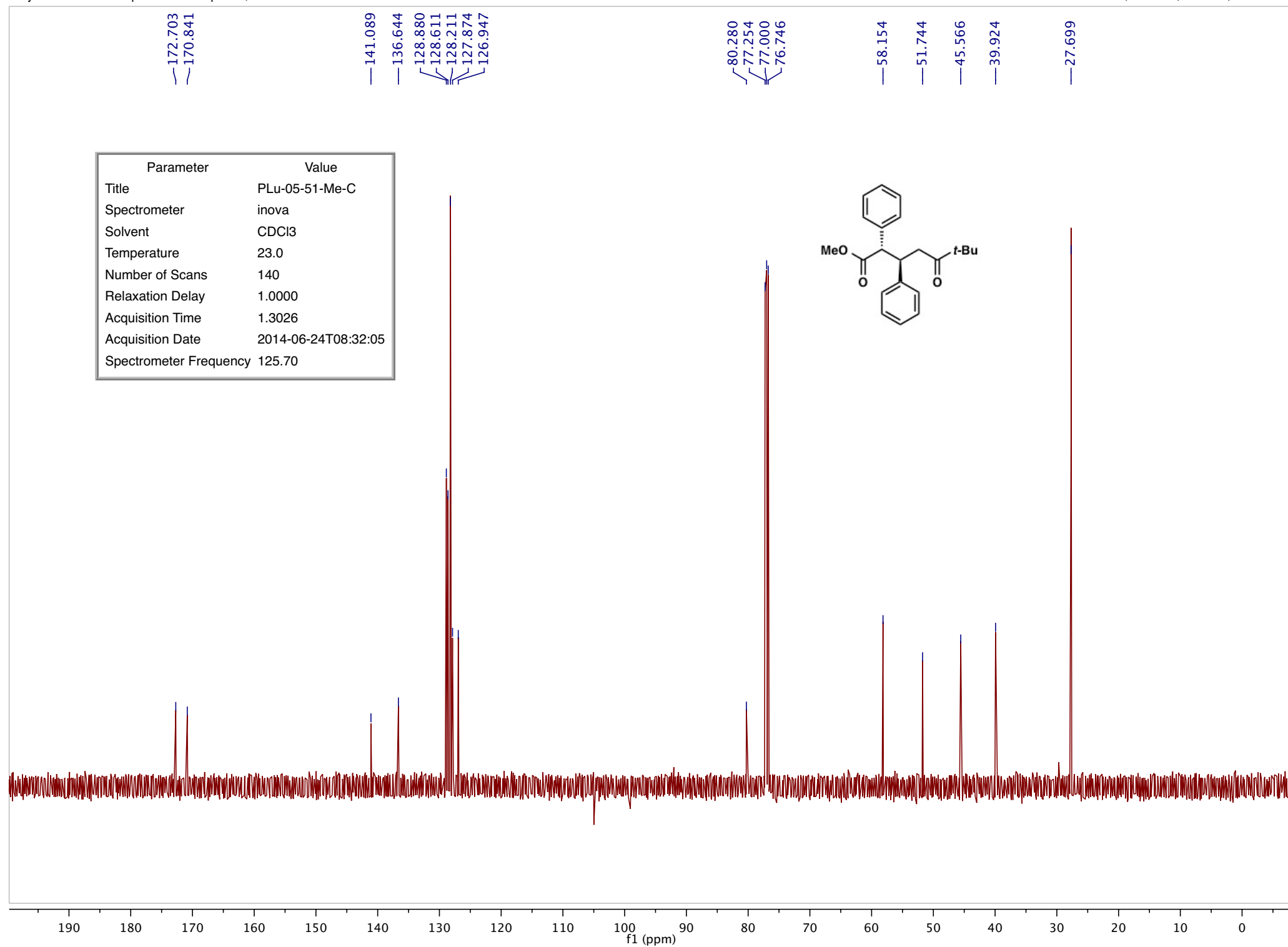


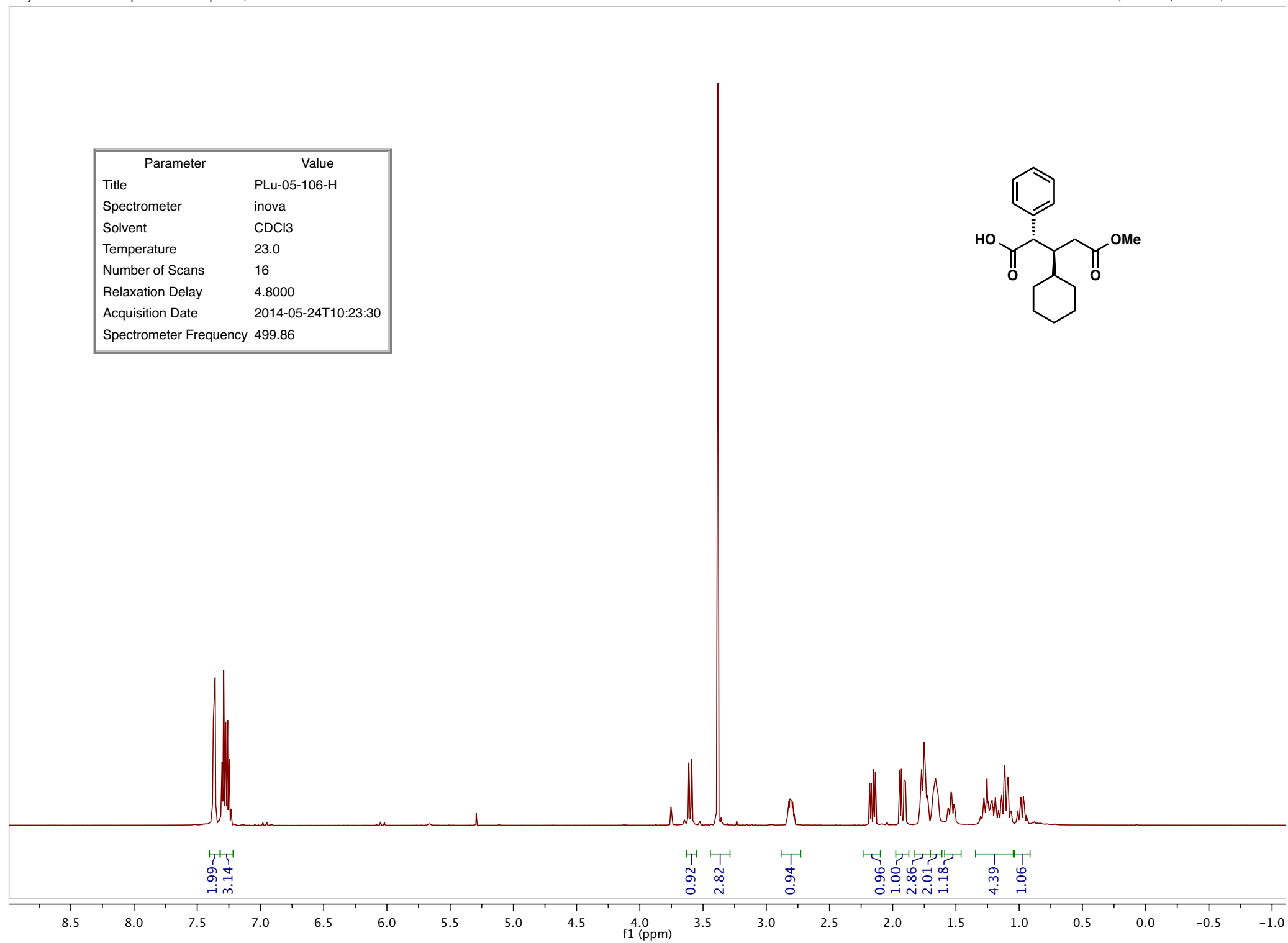
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Title	PLu-05-51-HH
Spectrometer	inova
Solvent	CDCl ₃
Temperature	23.0
Number of Scans	12
Relaxation Delay	4.8000
Acquisition Time	2.5001
Acquisition Date	2014-06-24T08:26:27
Spectrometer Frequency	499.86

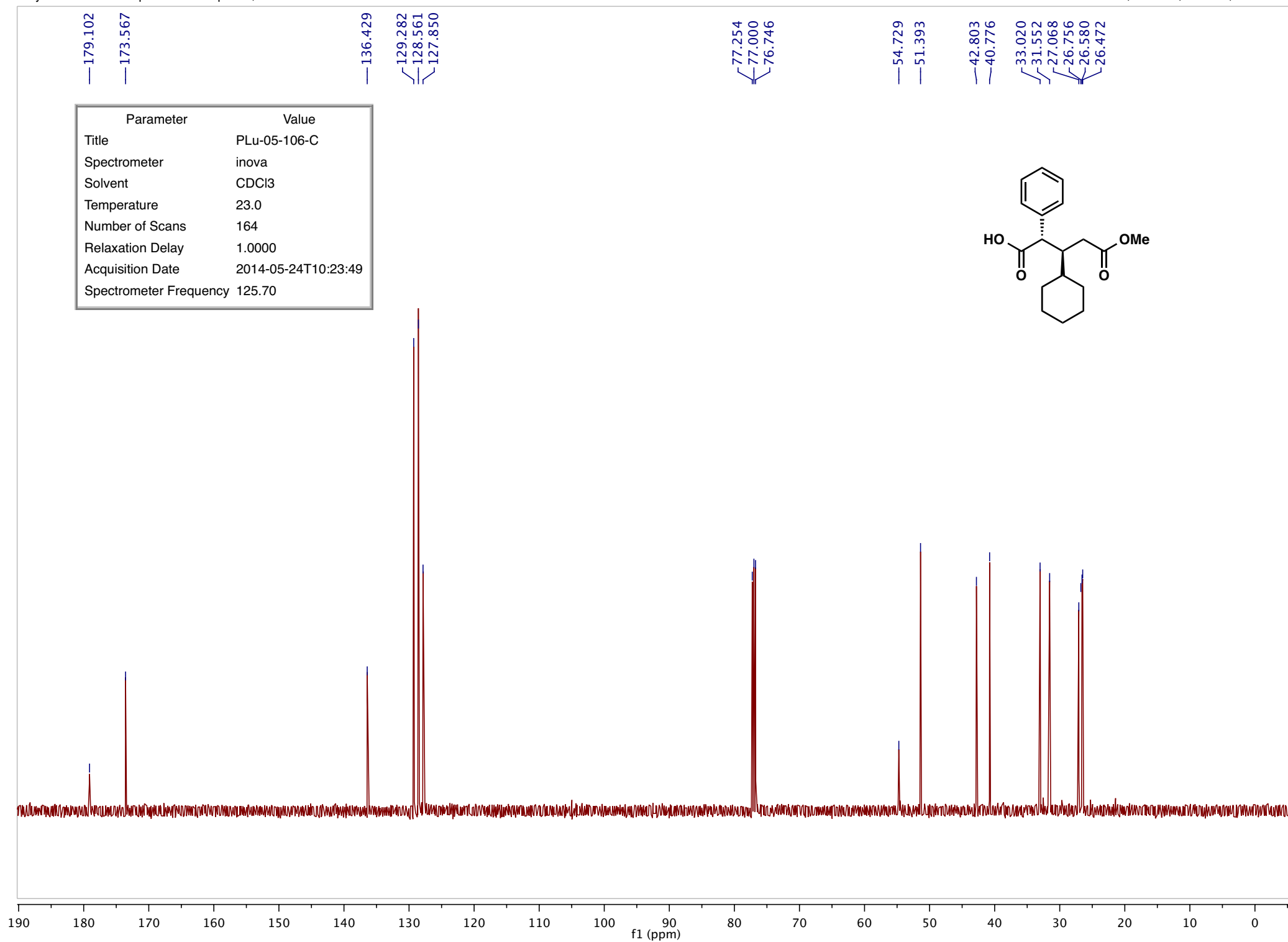


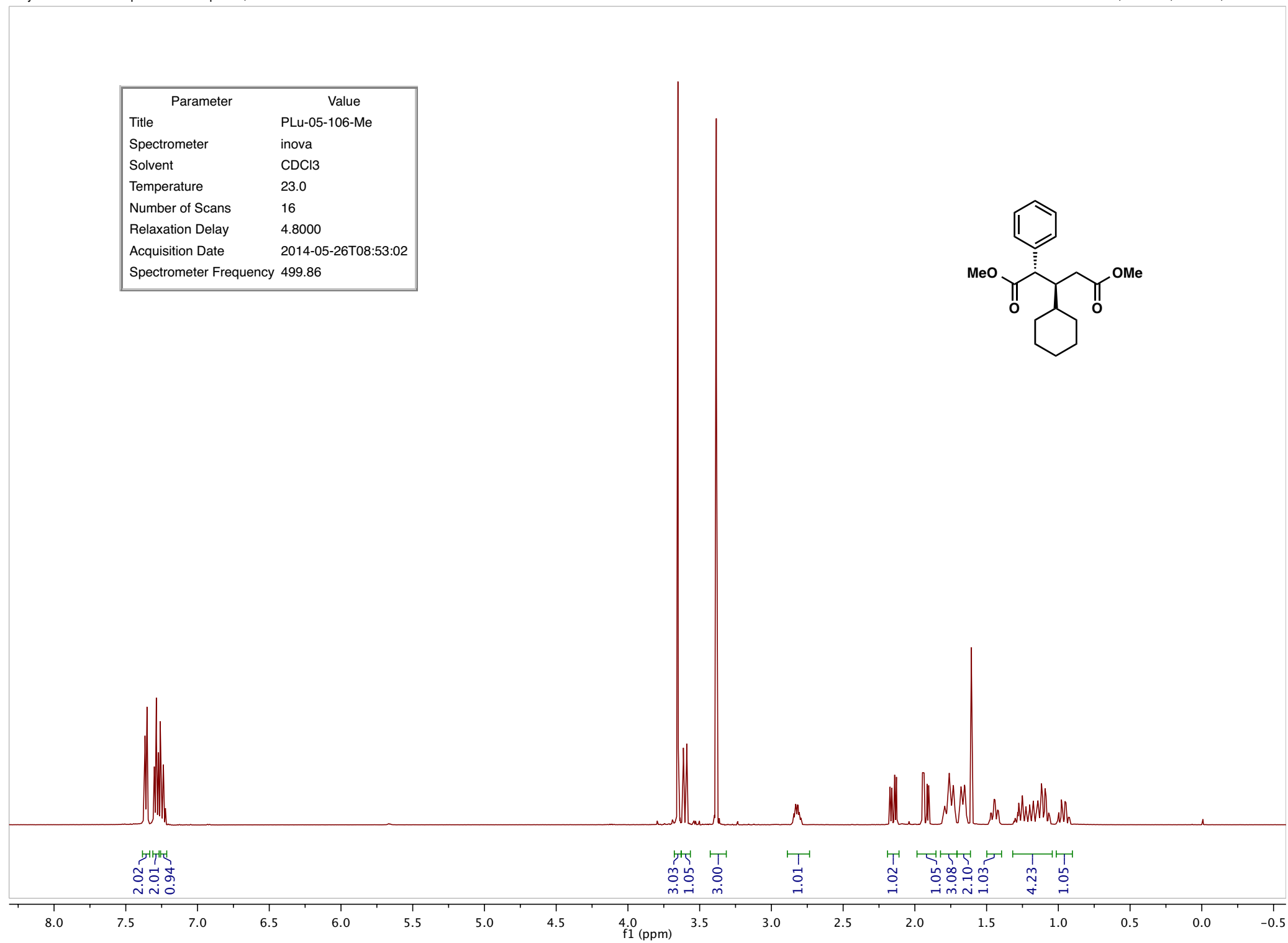


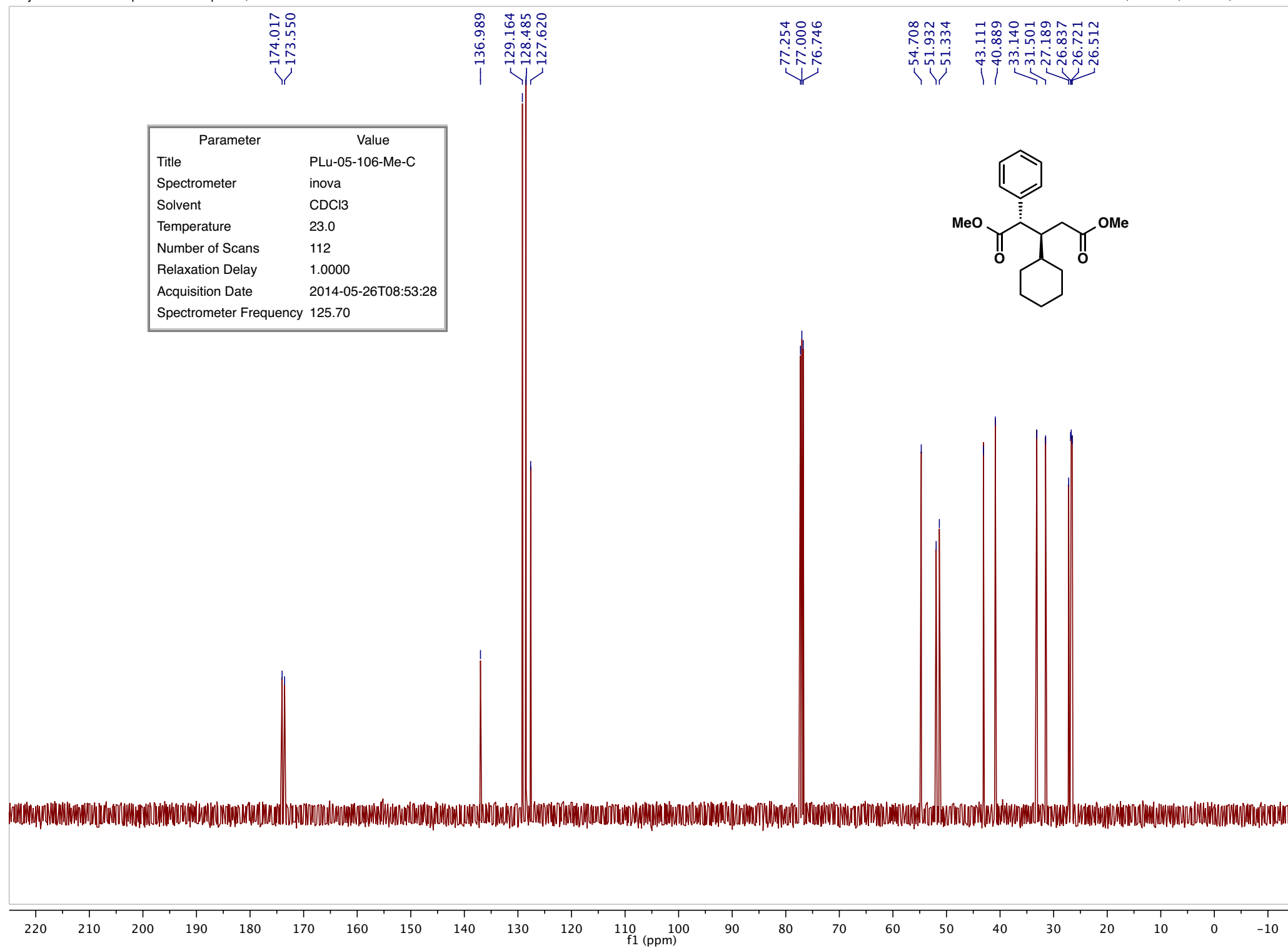


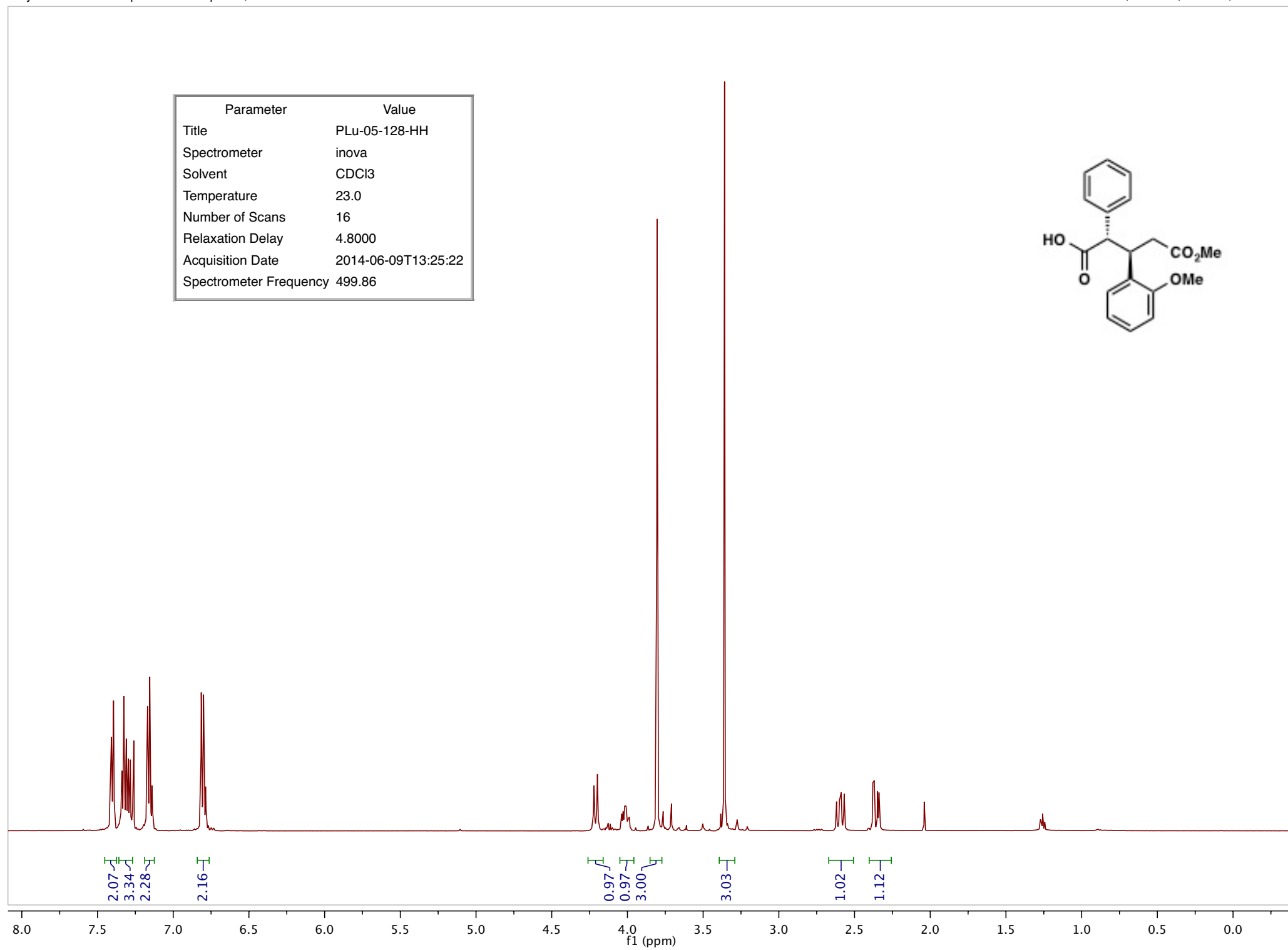


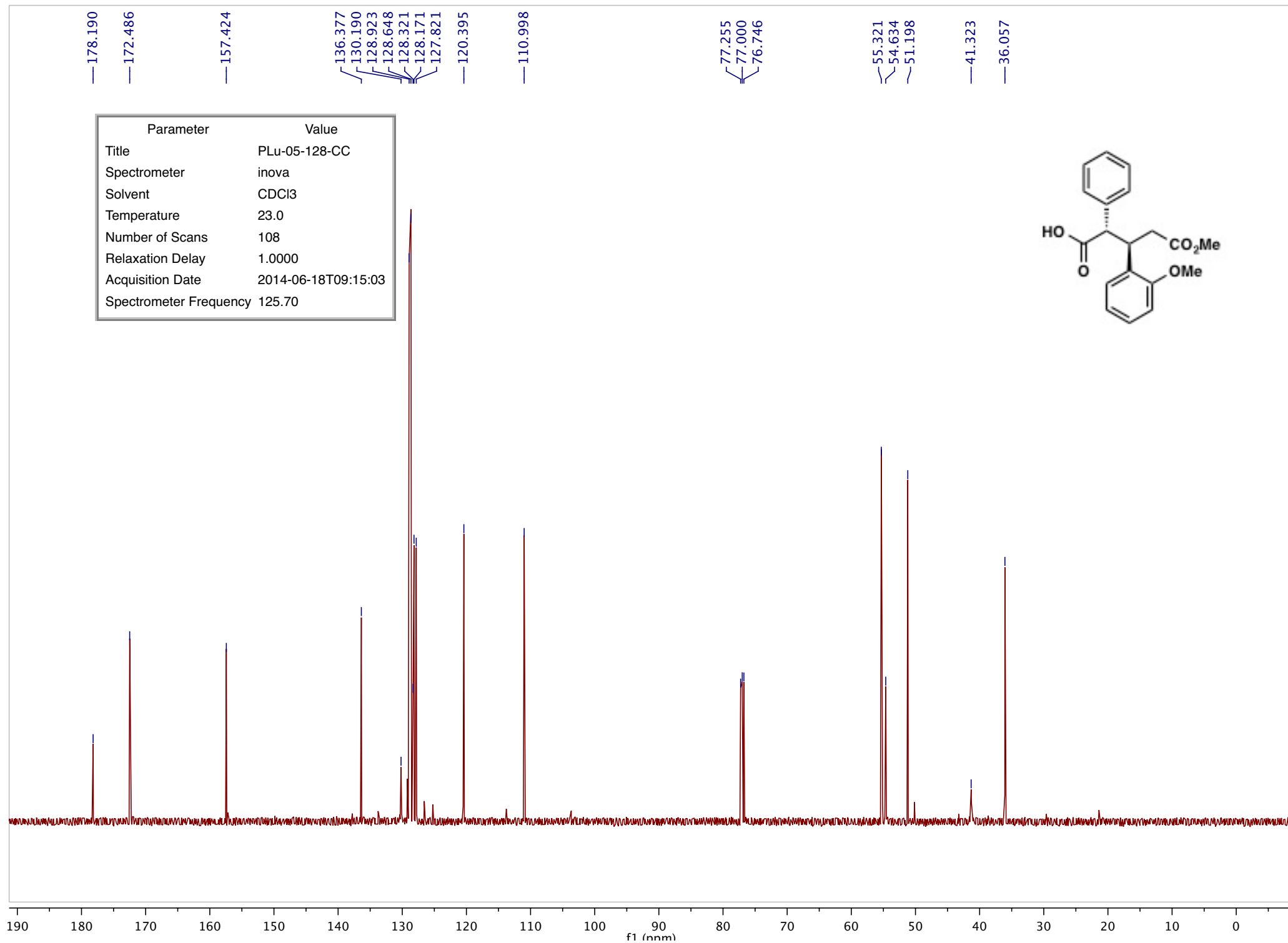


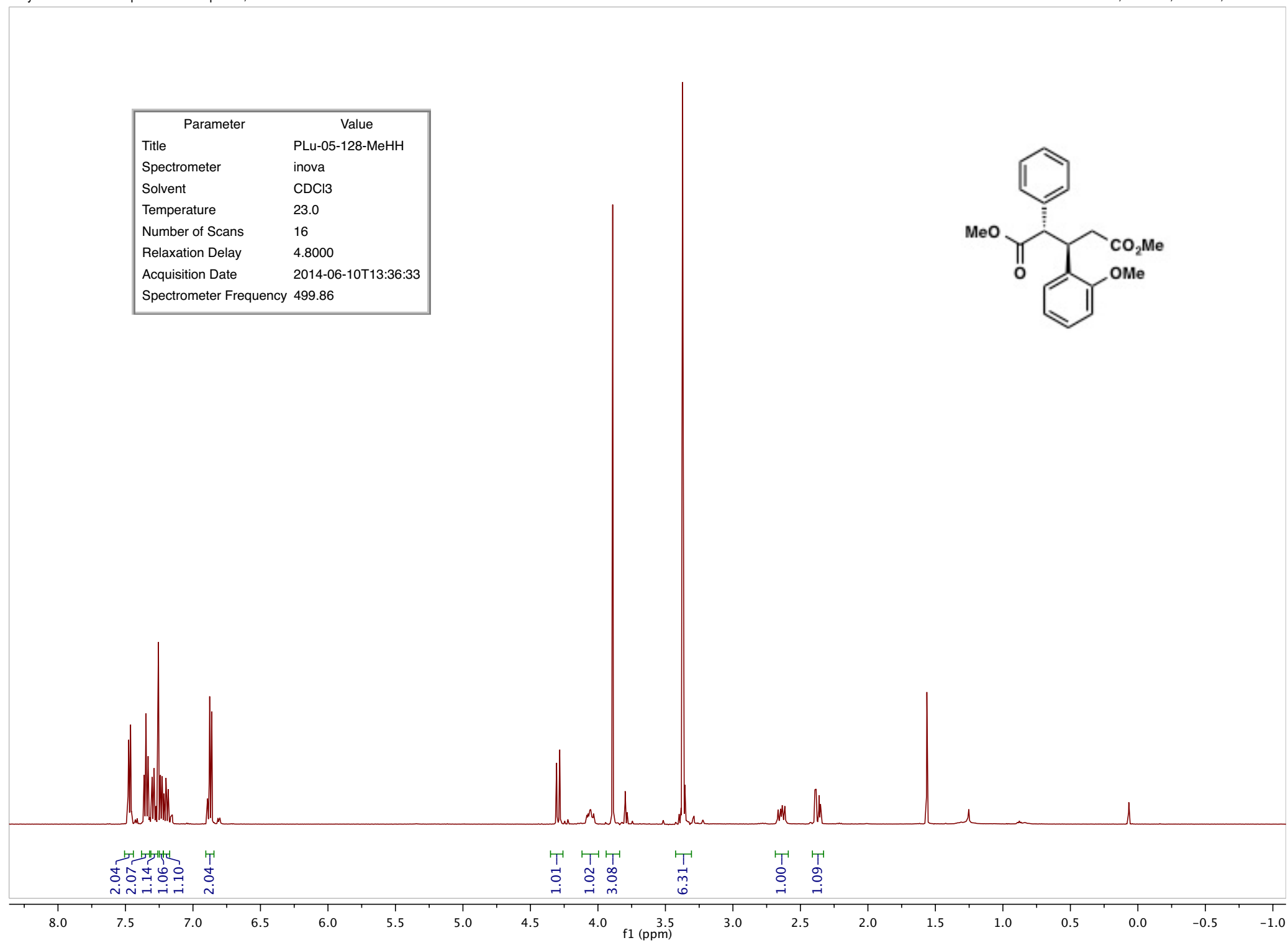


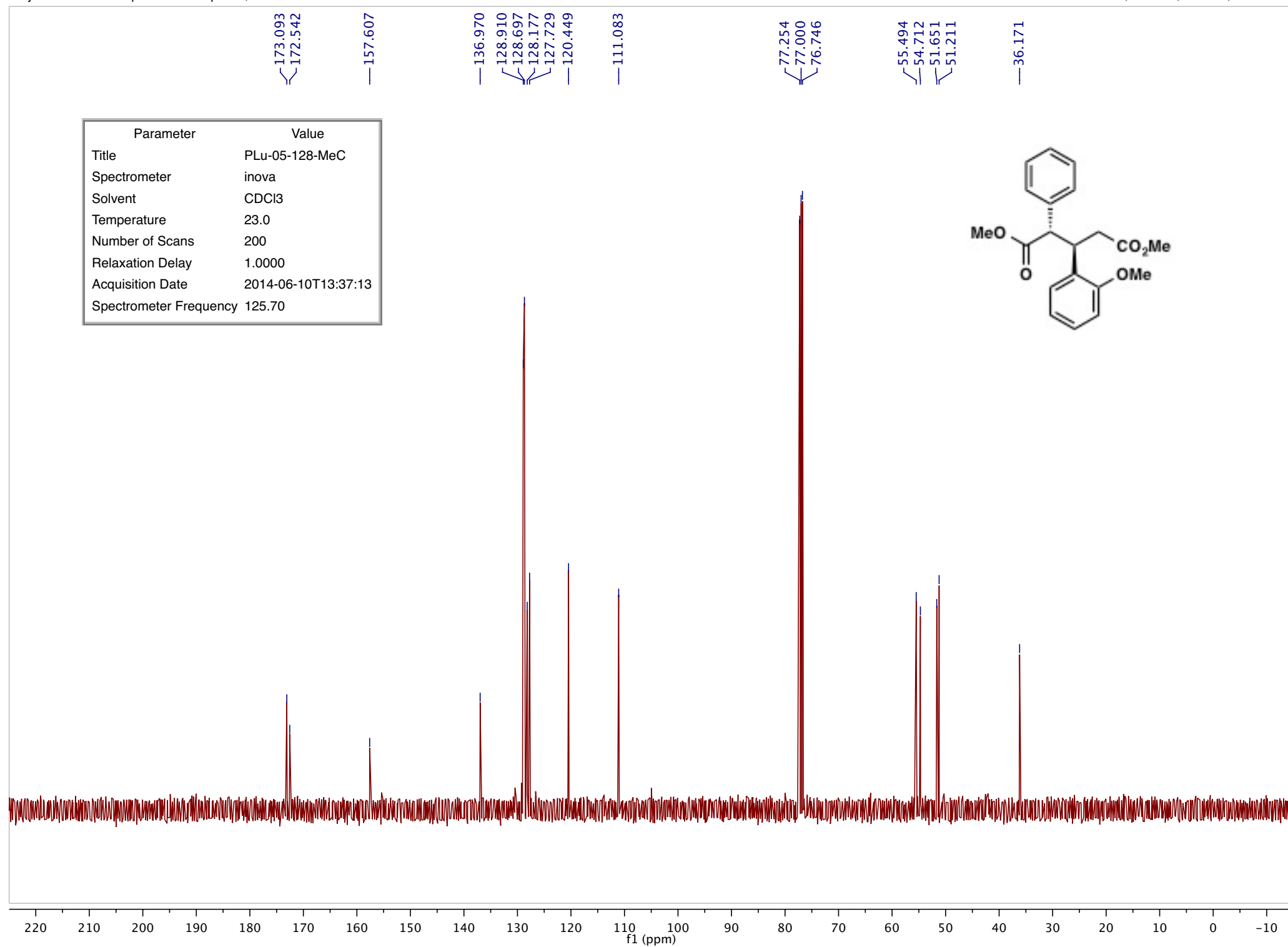


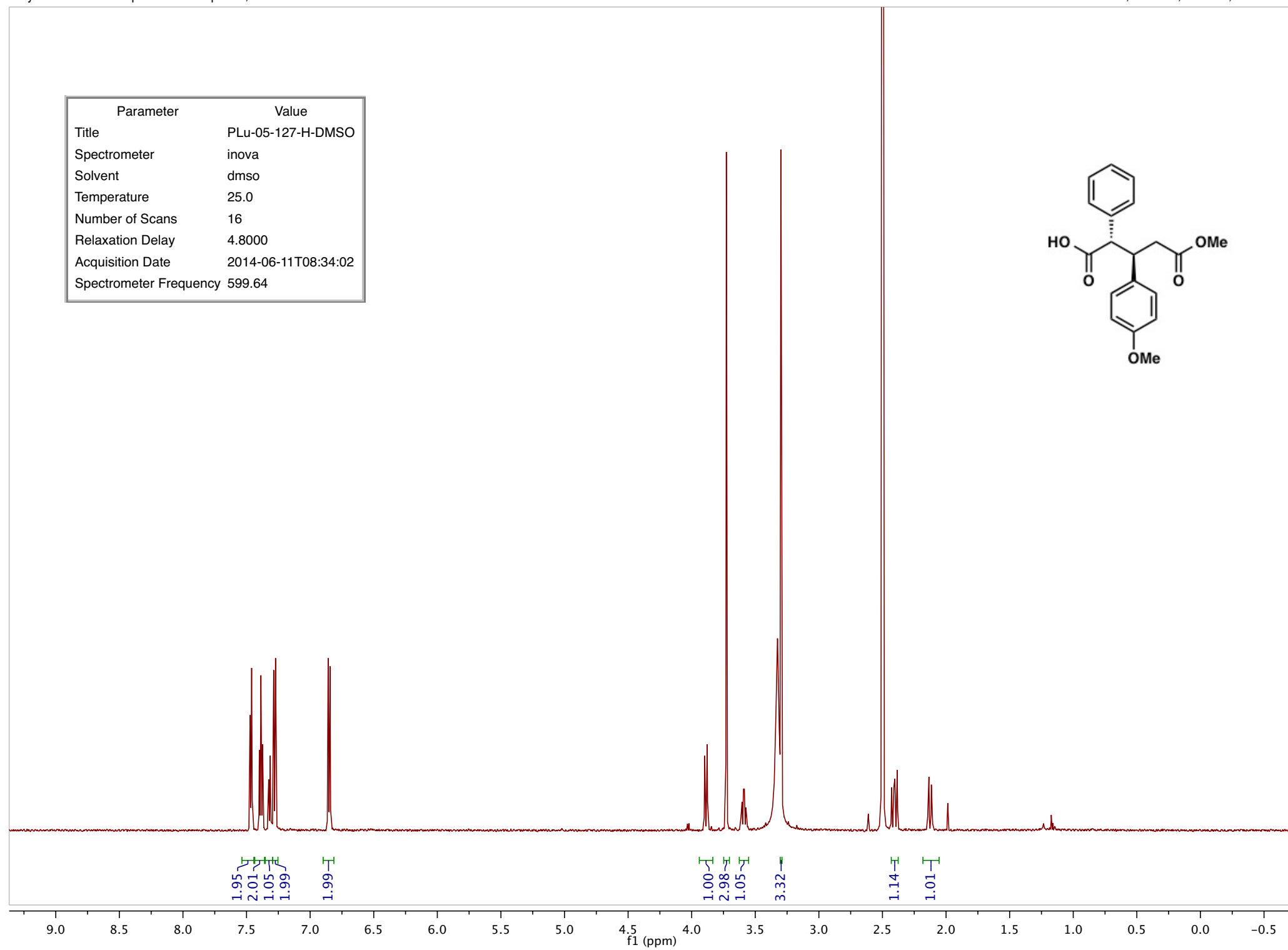


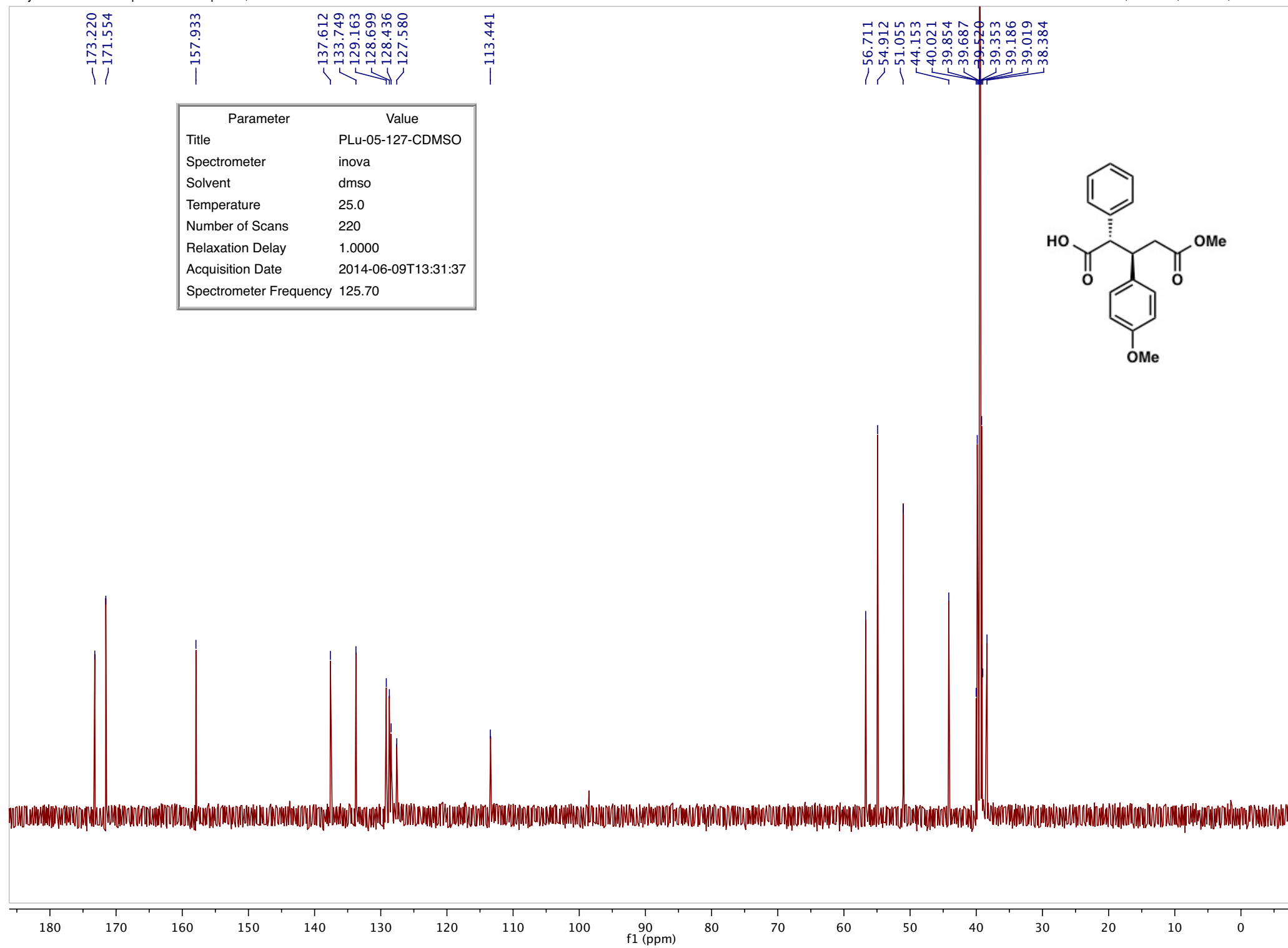




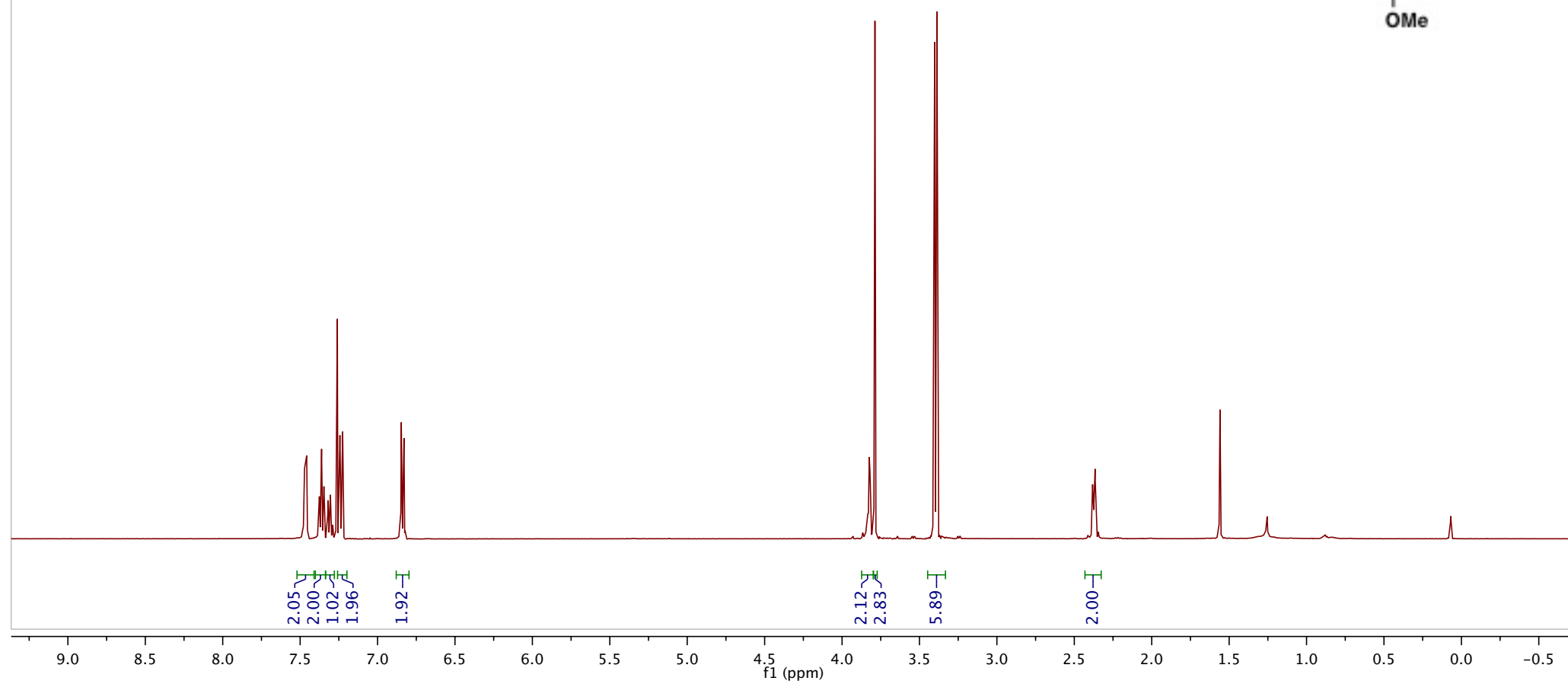
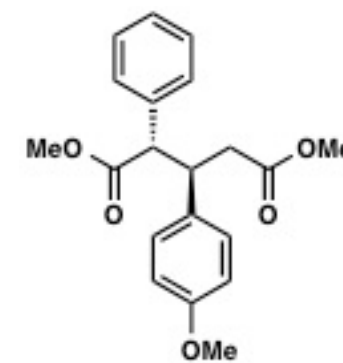


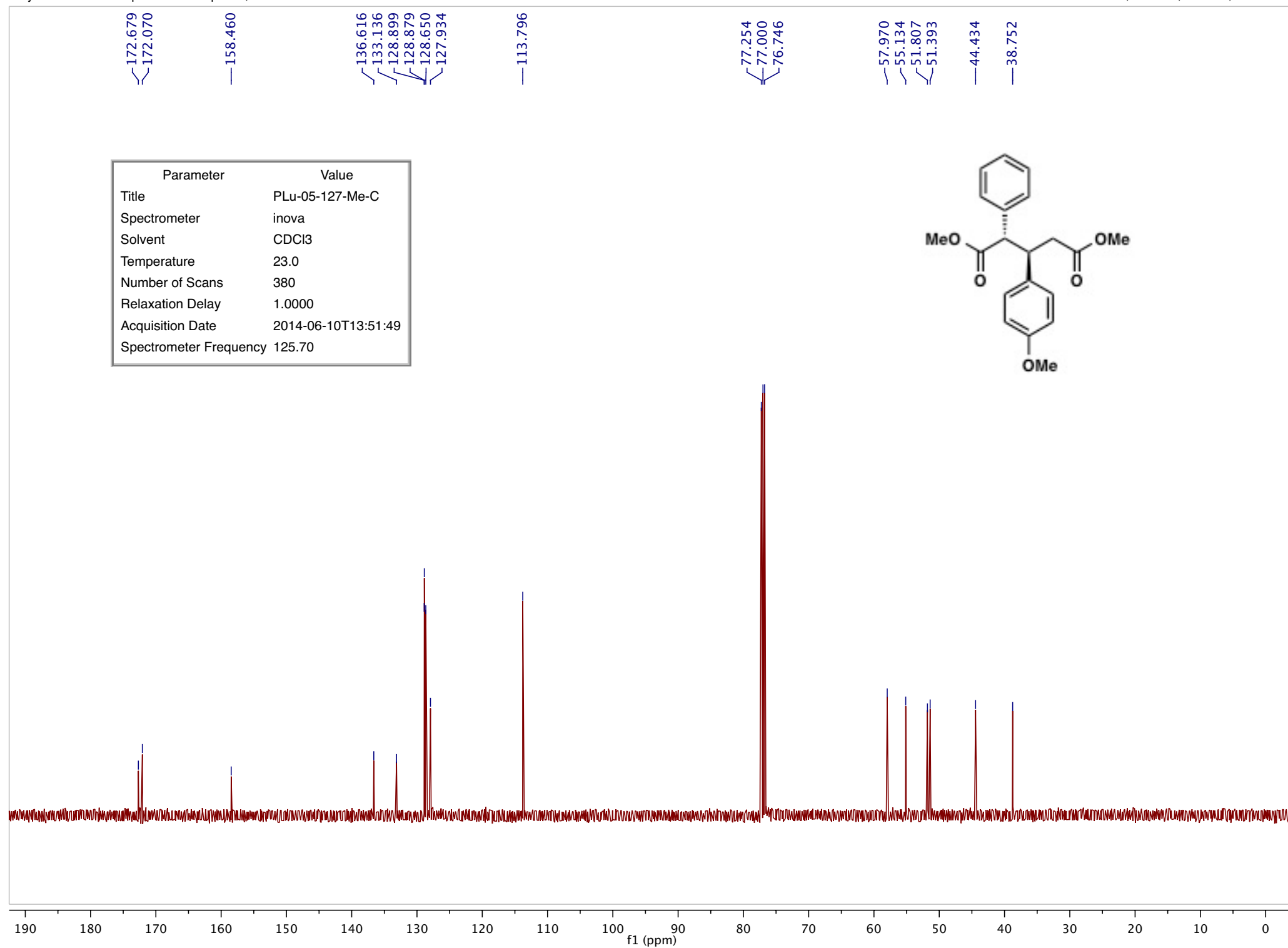


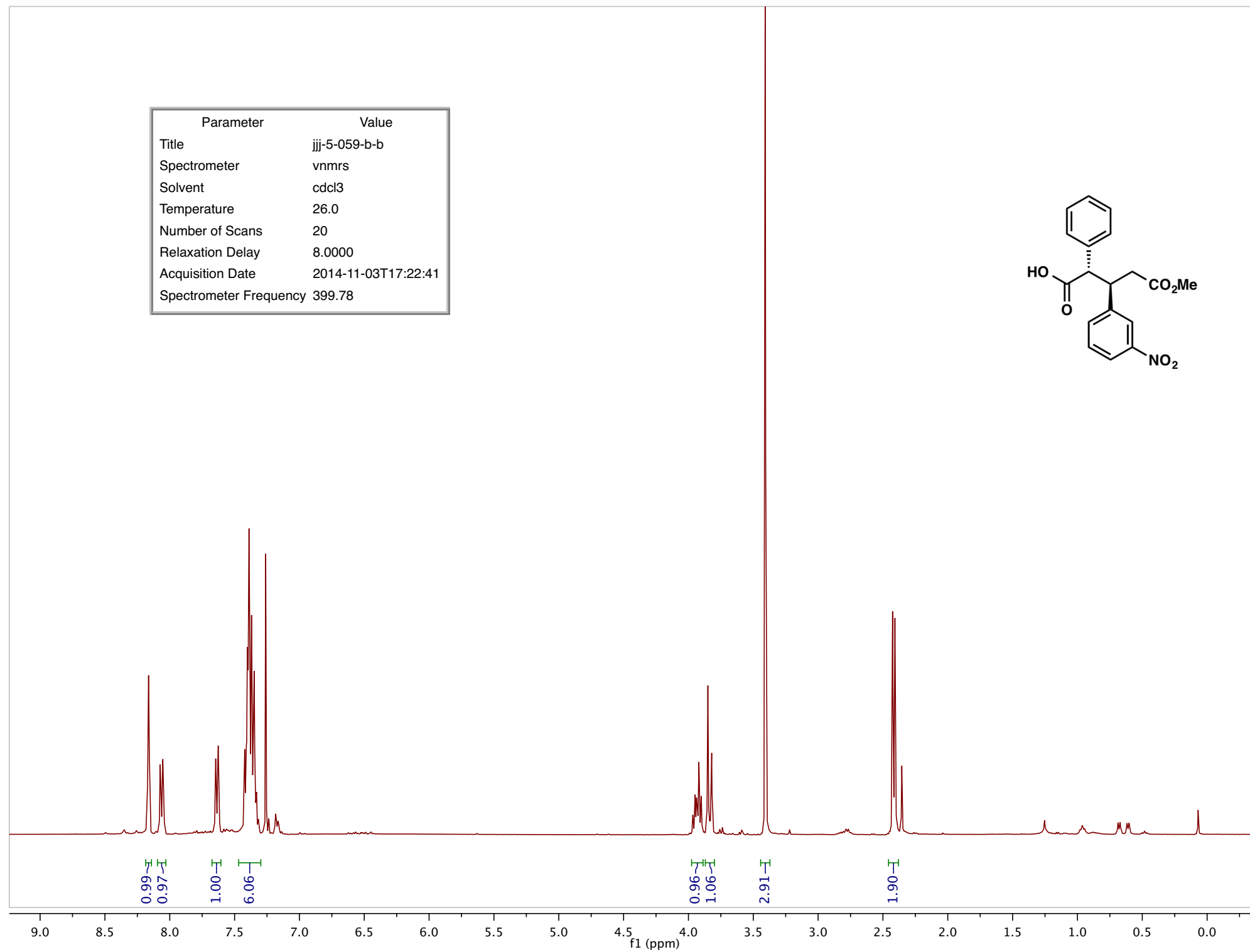


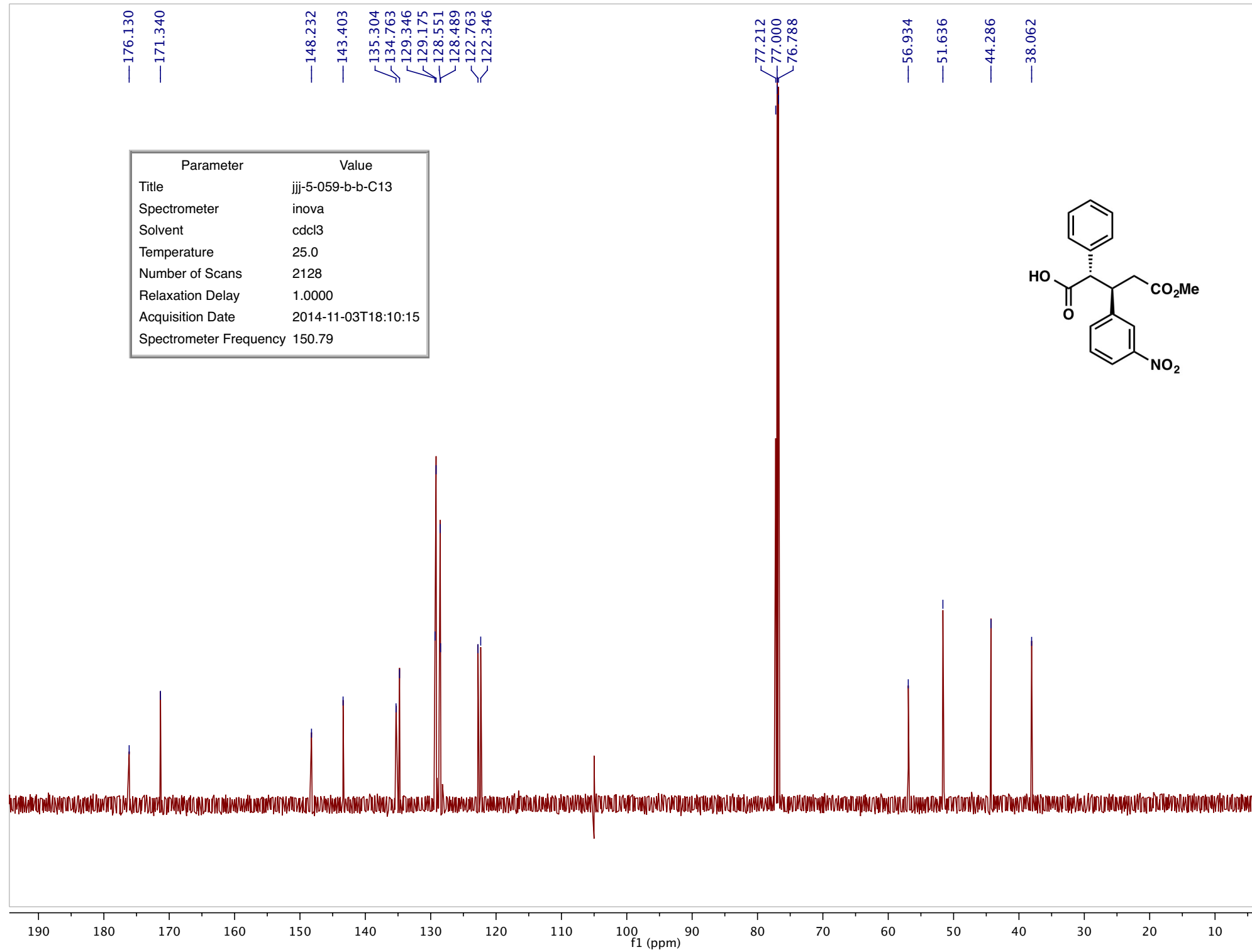


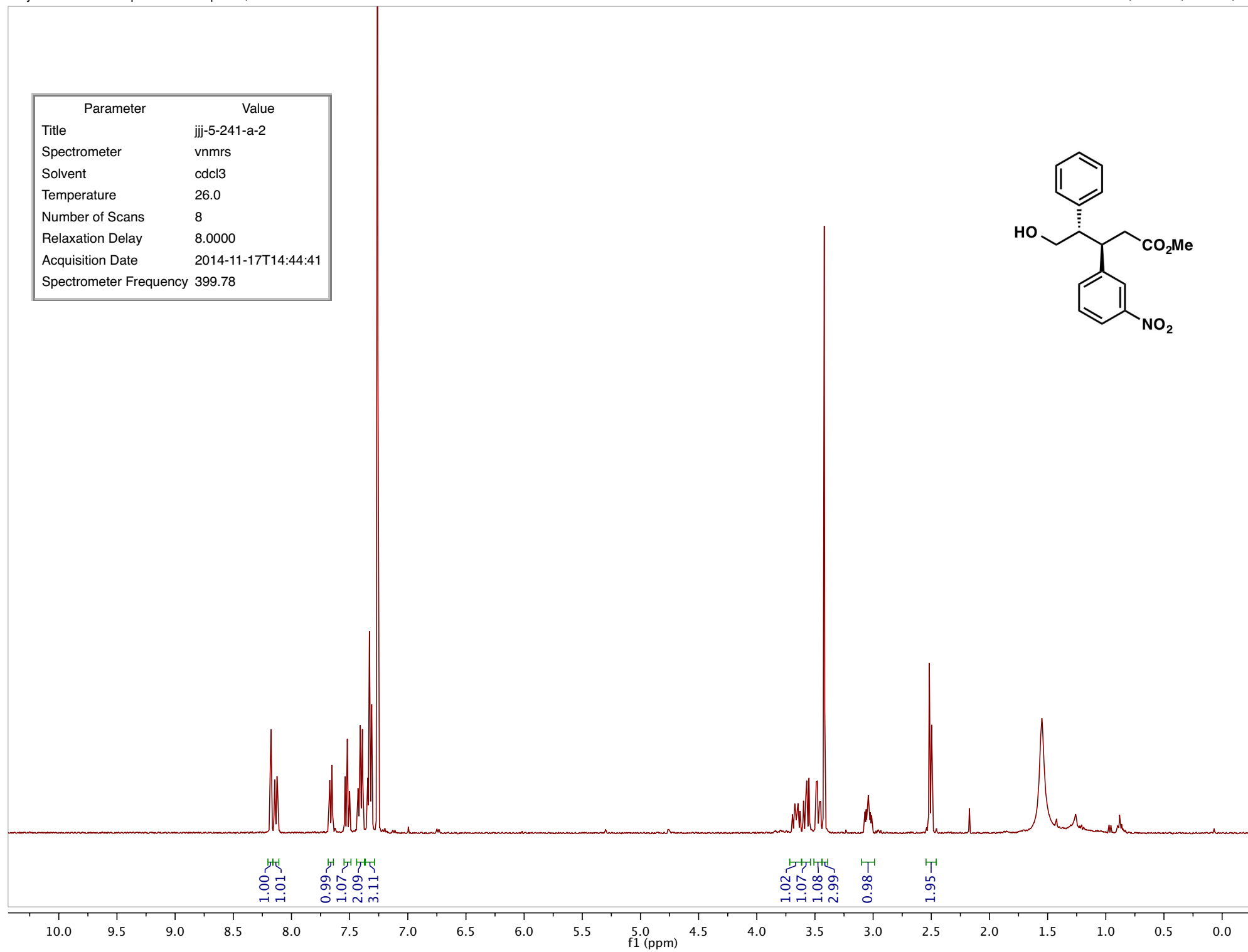
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Title	PLu-05-127-MeH
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Solvent	CDCl ₃
Temperature	23.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-06-10T09:18:57
Spectrometer Frequency	499.86

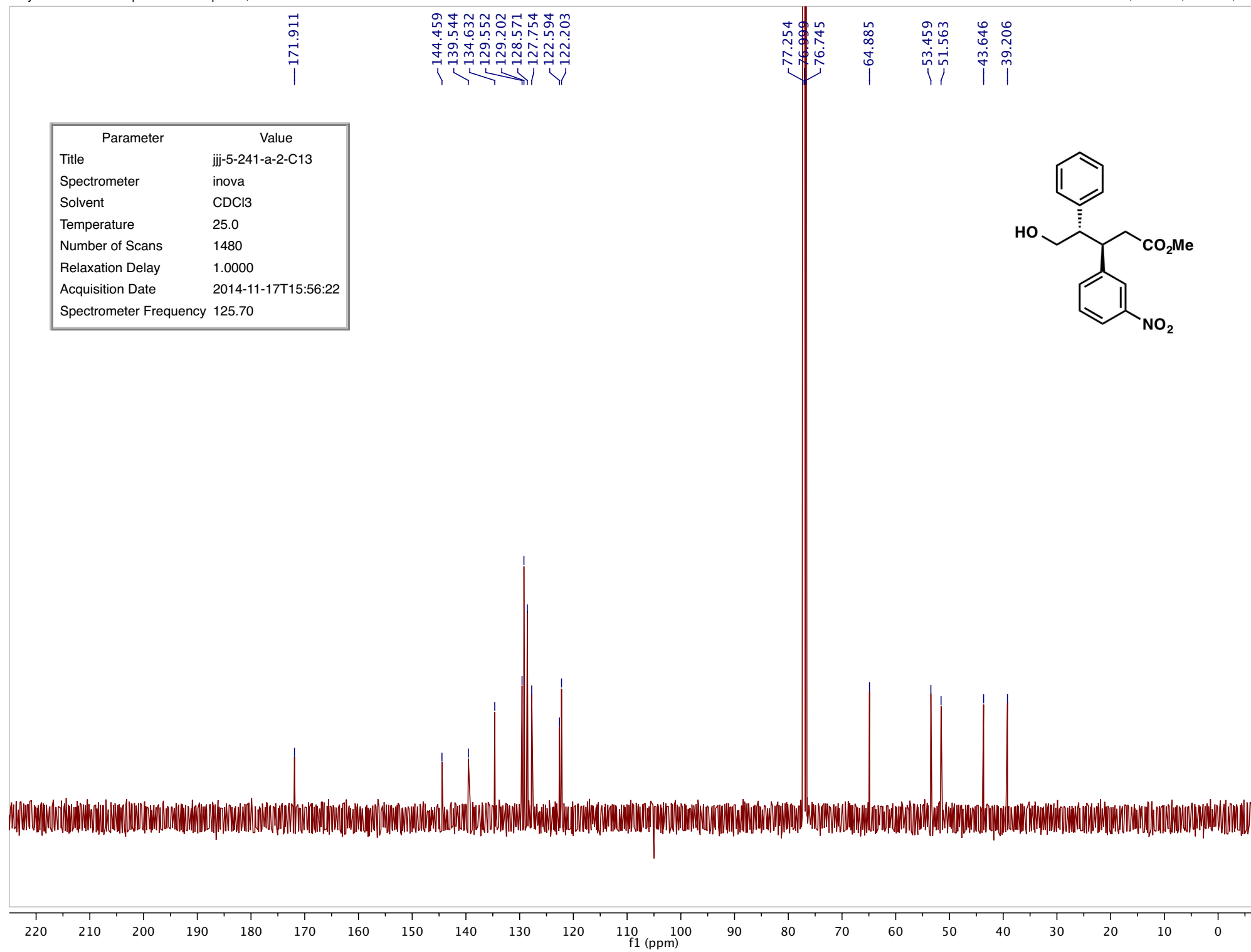


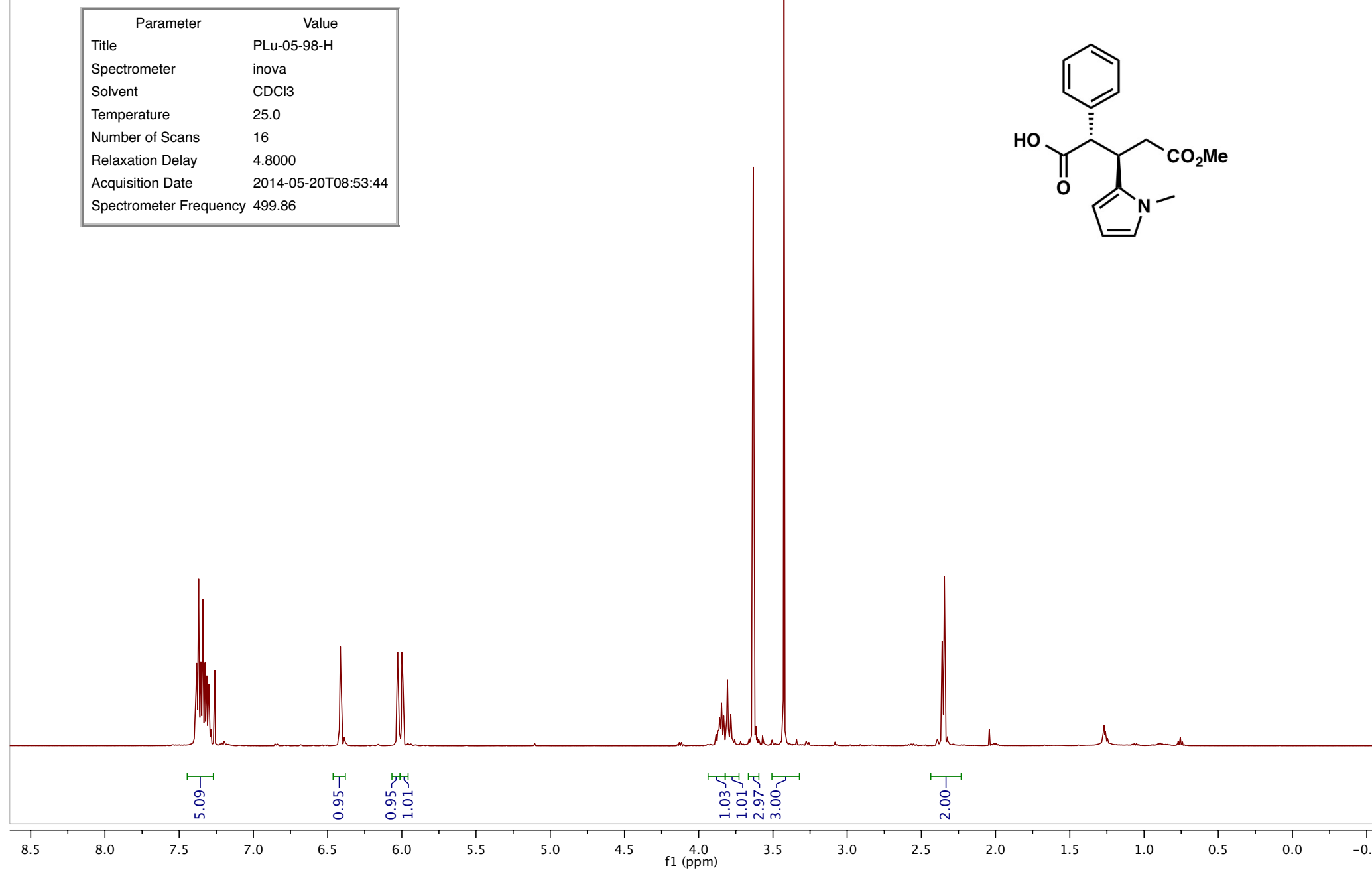


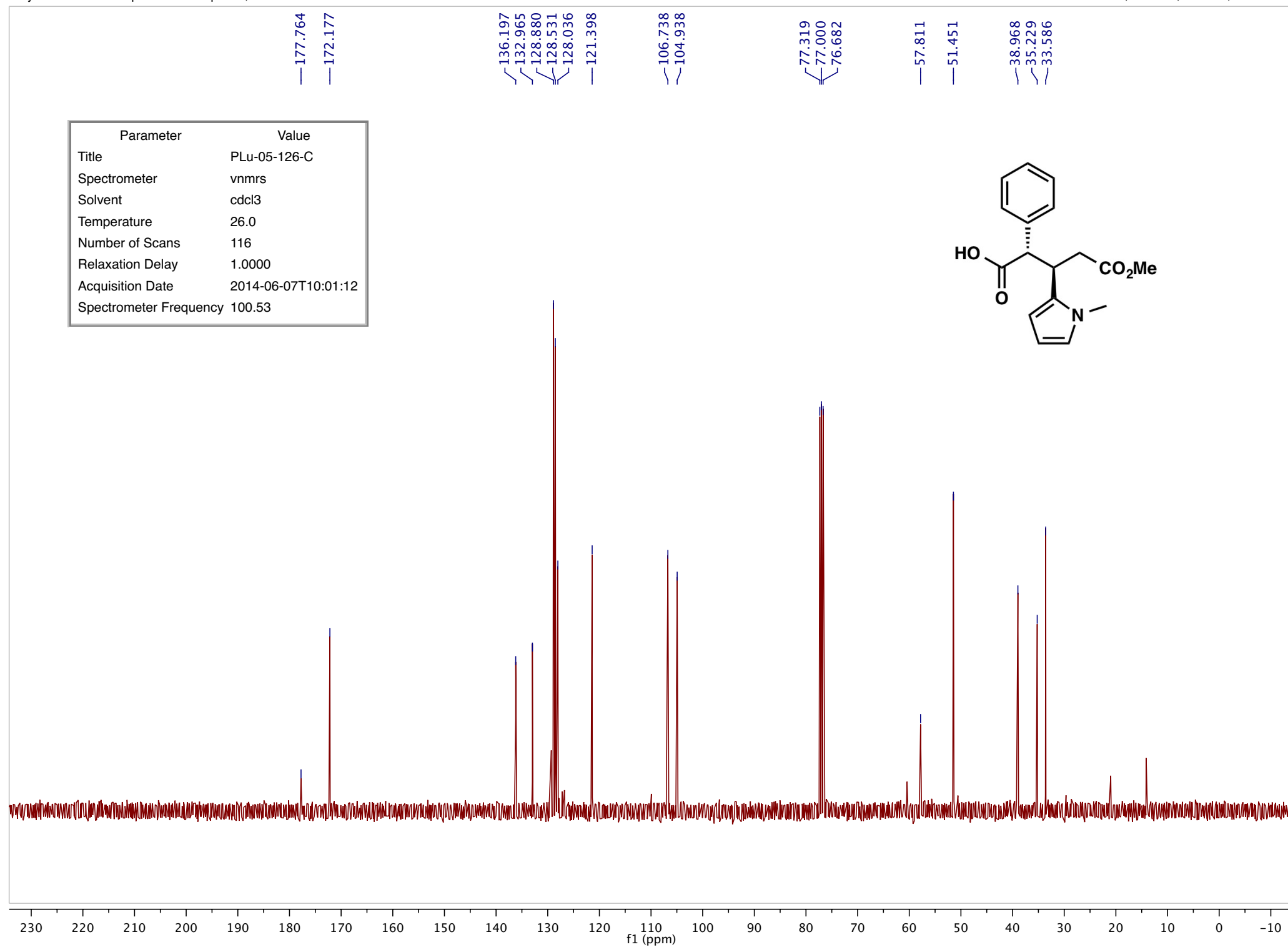


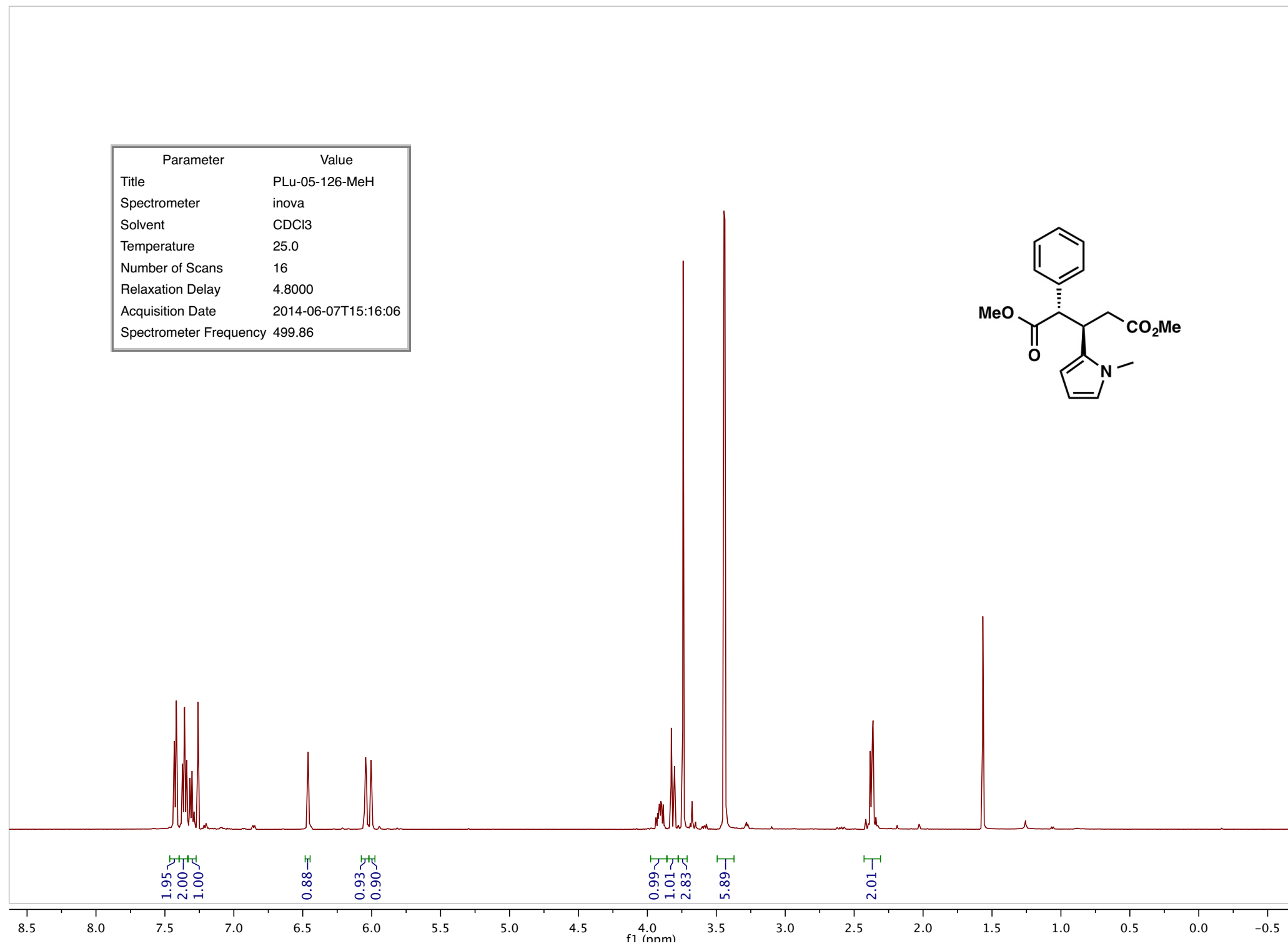


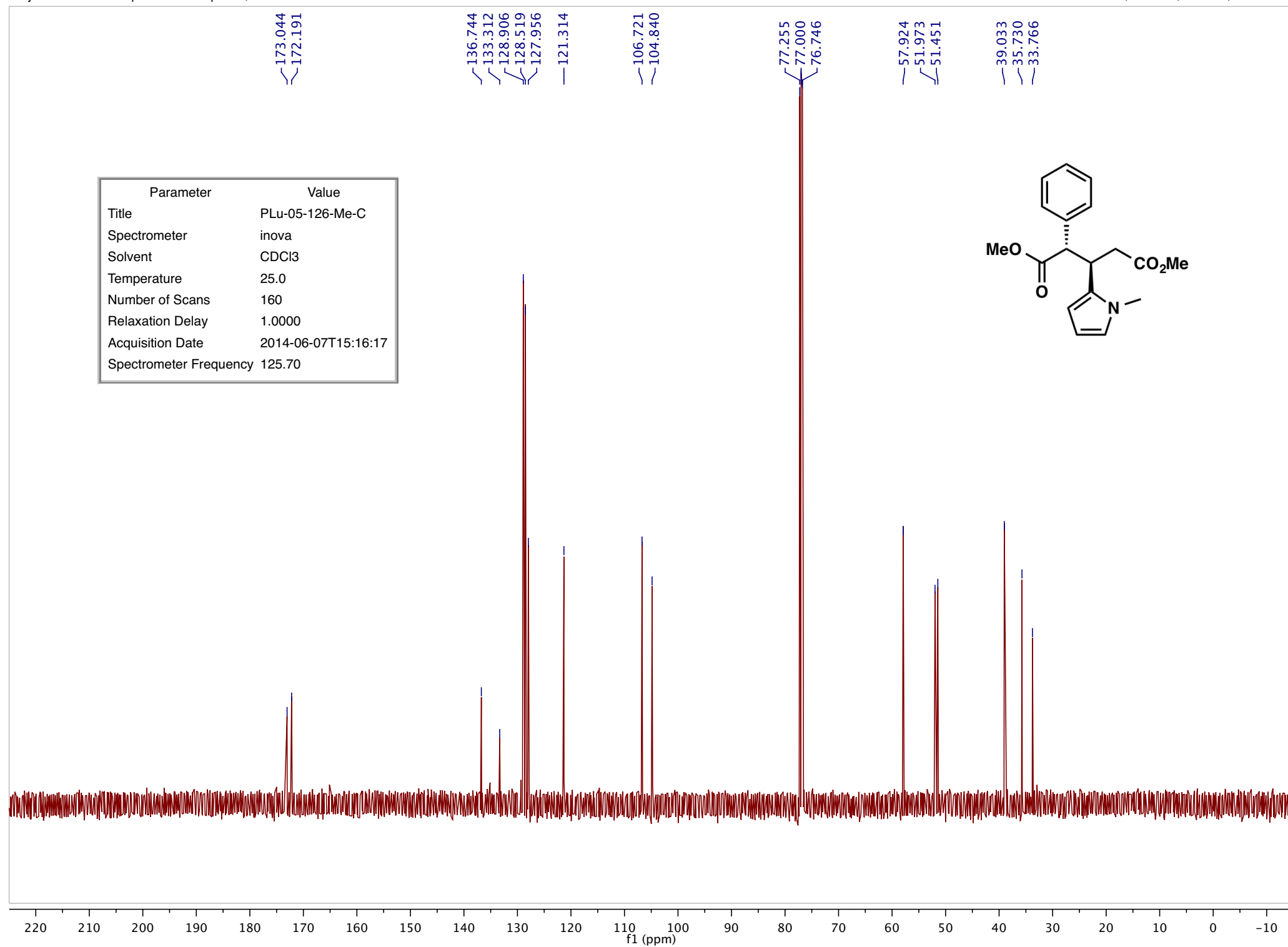






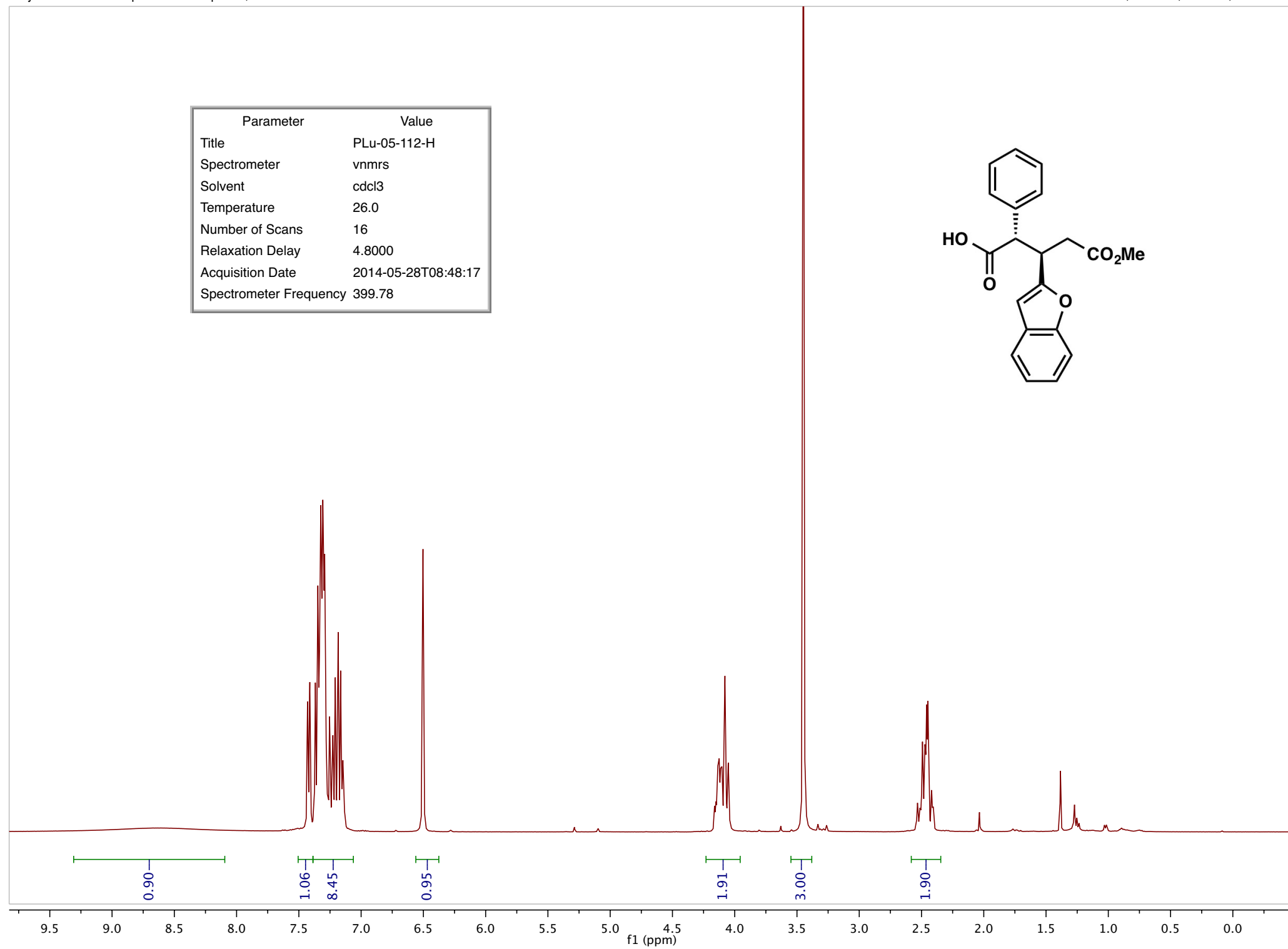
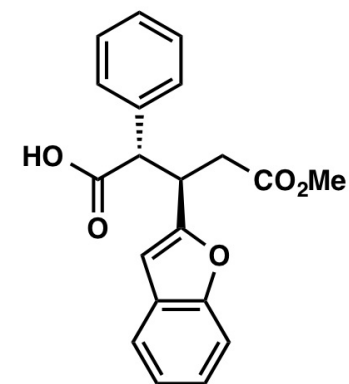


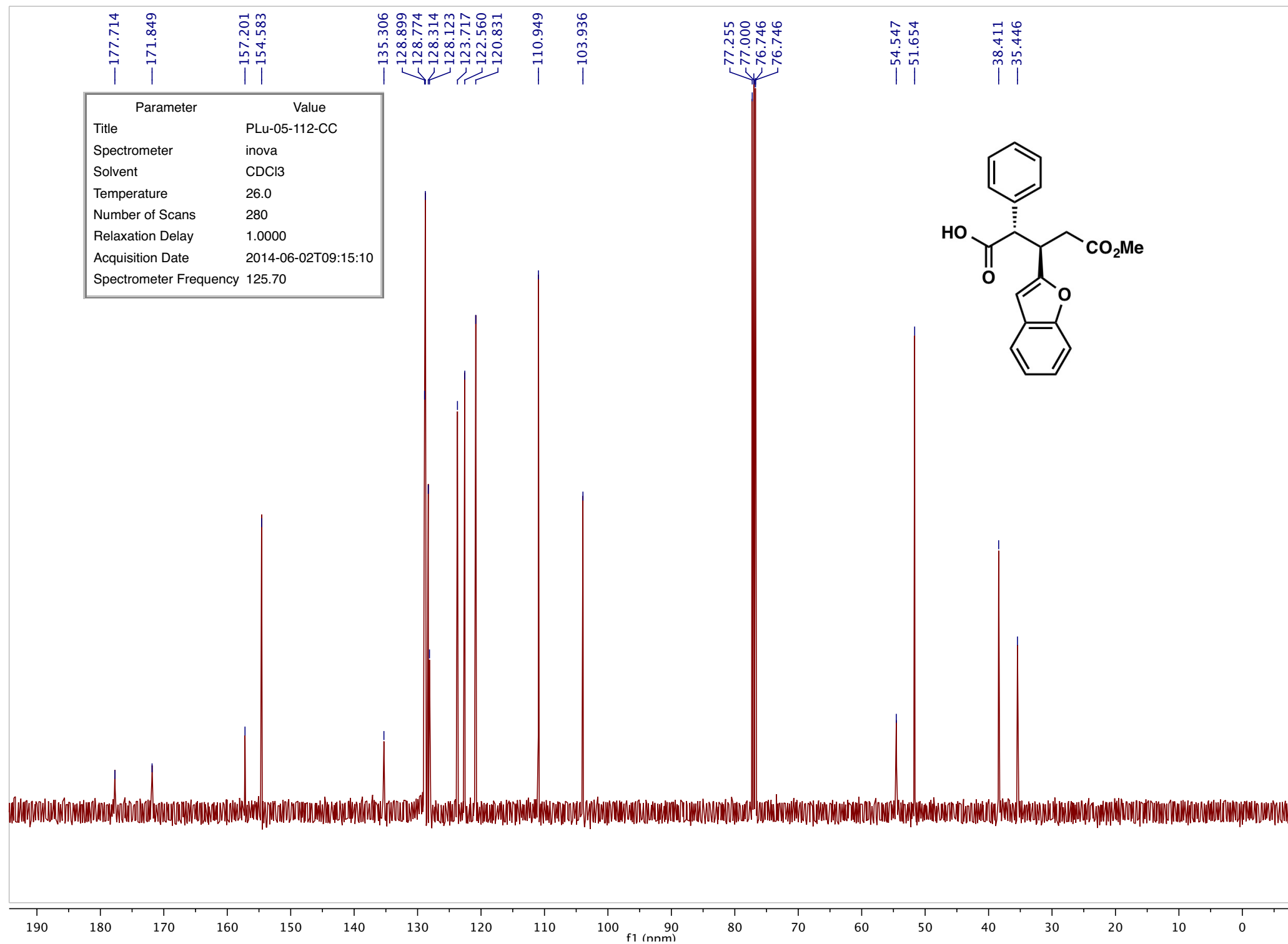


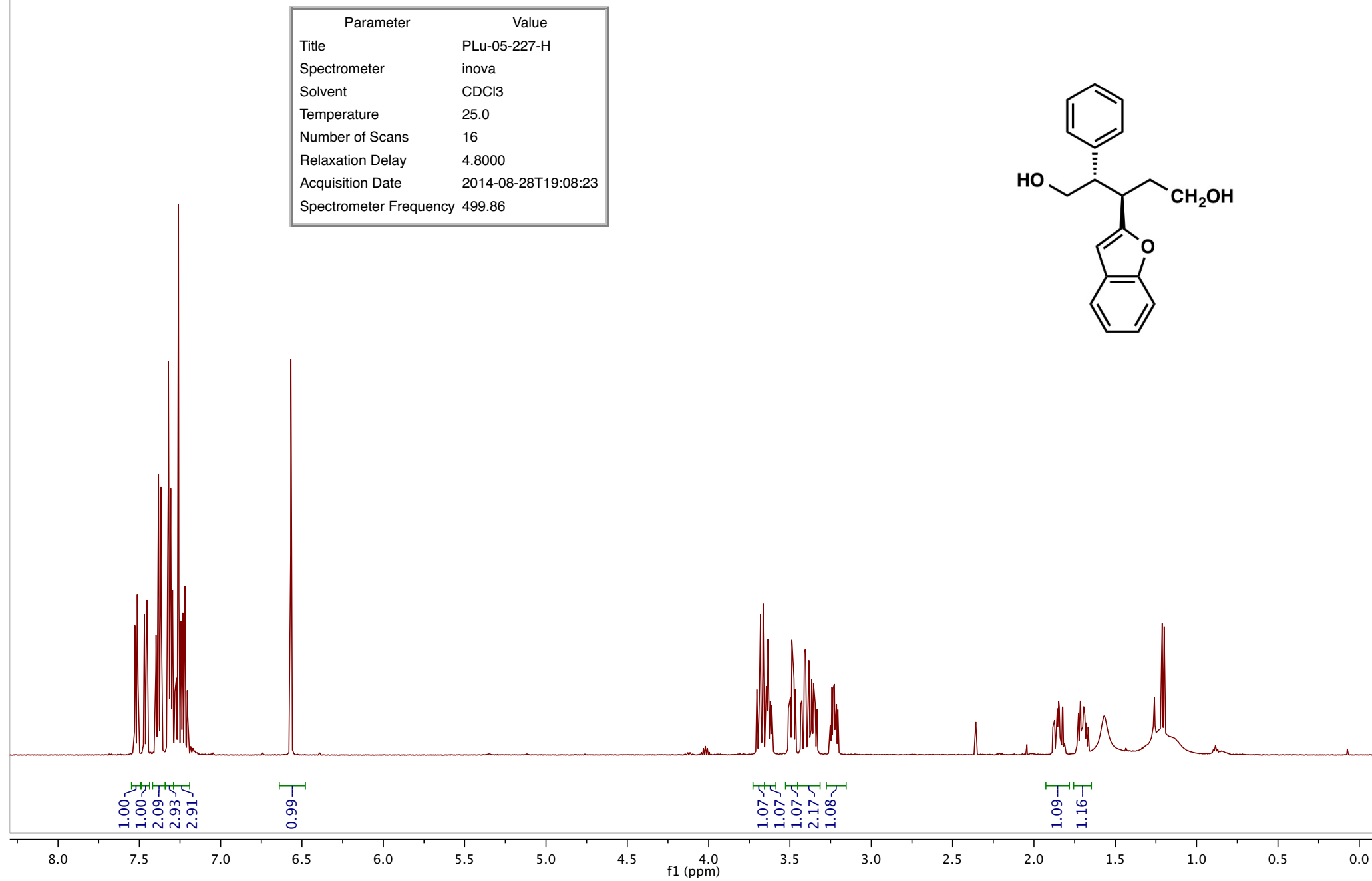


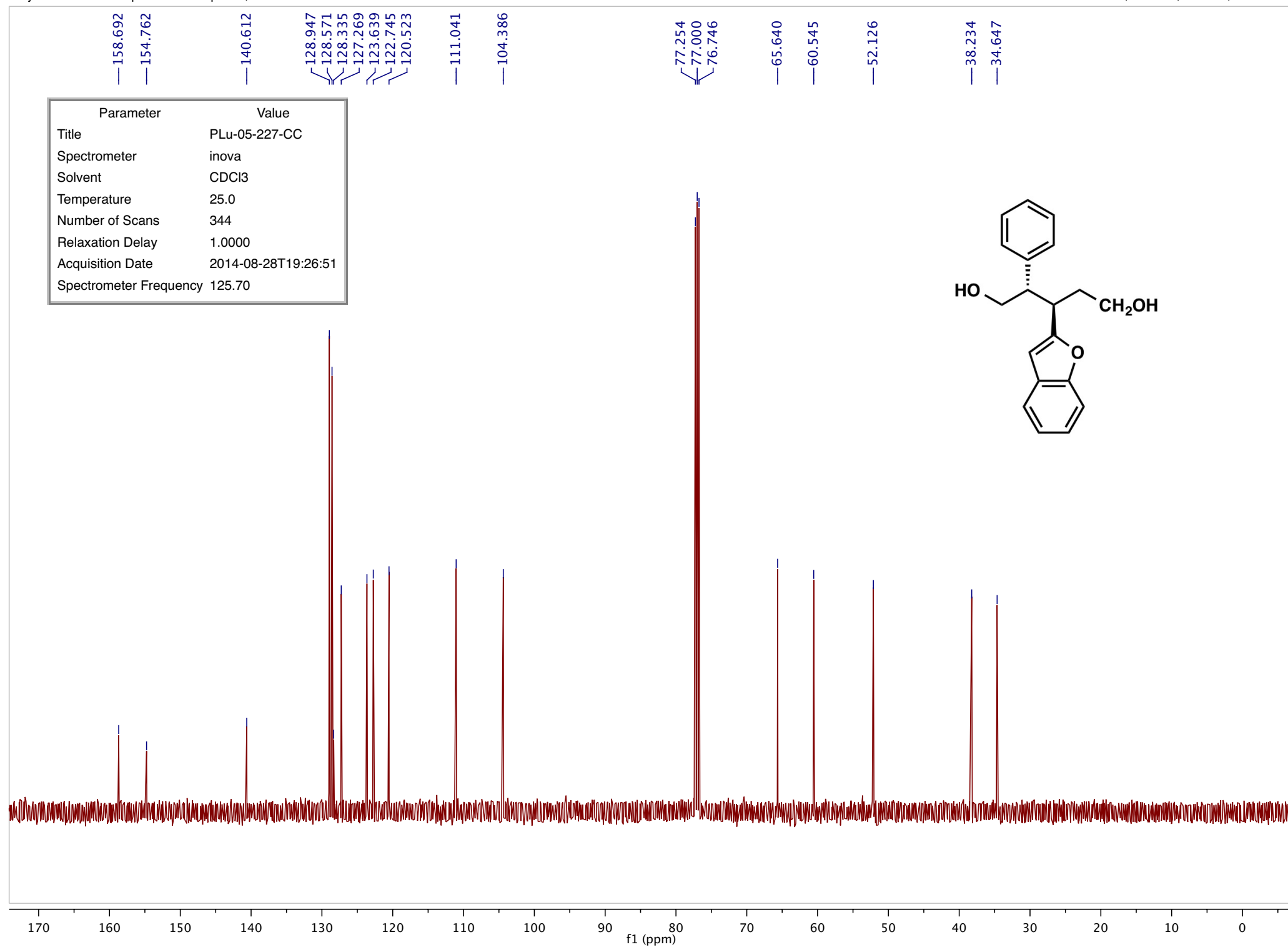
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Spectrometer	inova
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Temperature	25.0
Number of Scans	160
Relaxation Delay	1.0000
Acquisition Date	2014-06-07T15:16:17
Spectrometer Frequency	125.70

Parameter	Value
Title	PLu-05-112-H
Spectrometer	vnmrs
Solvent	cdcl3
Temperature	26.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-05-28T08:48:17
Spectrometer Frequency	399.78

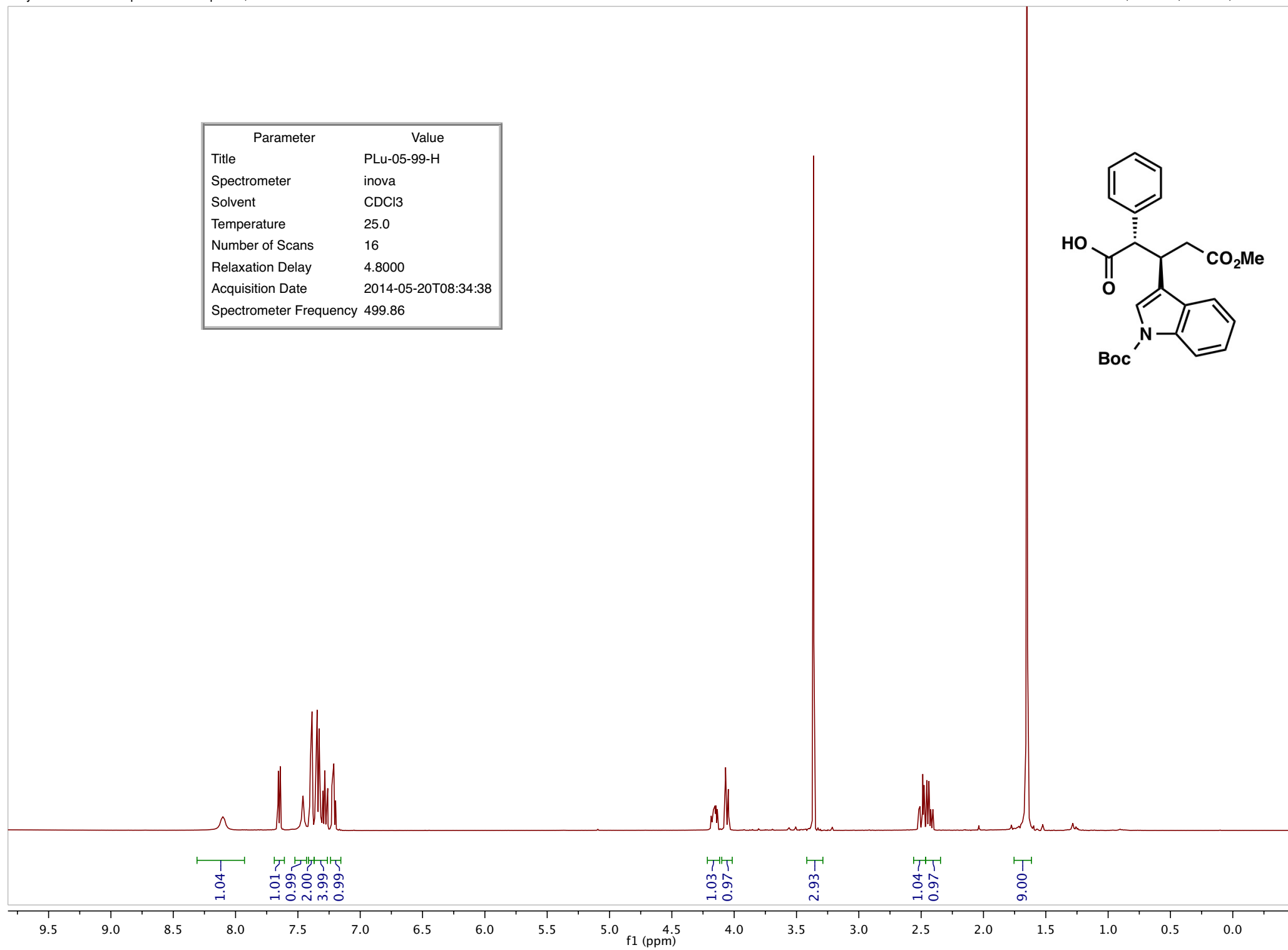
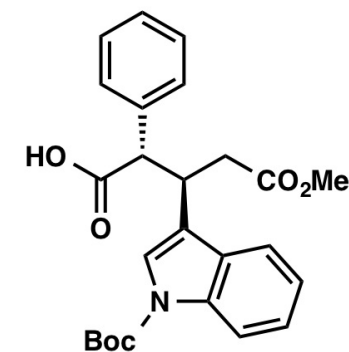


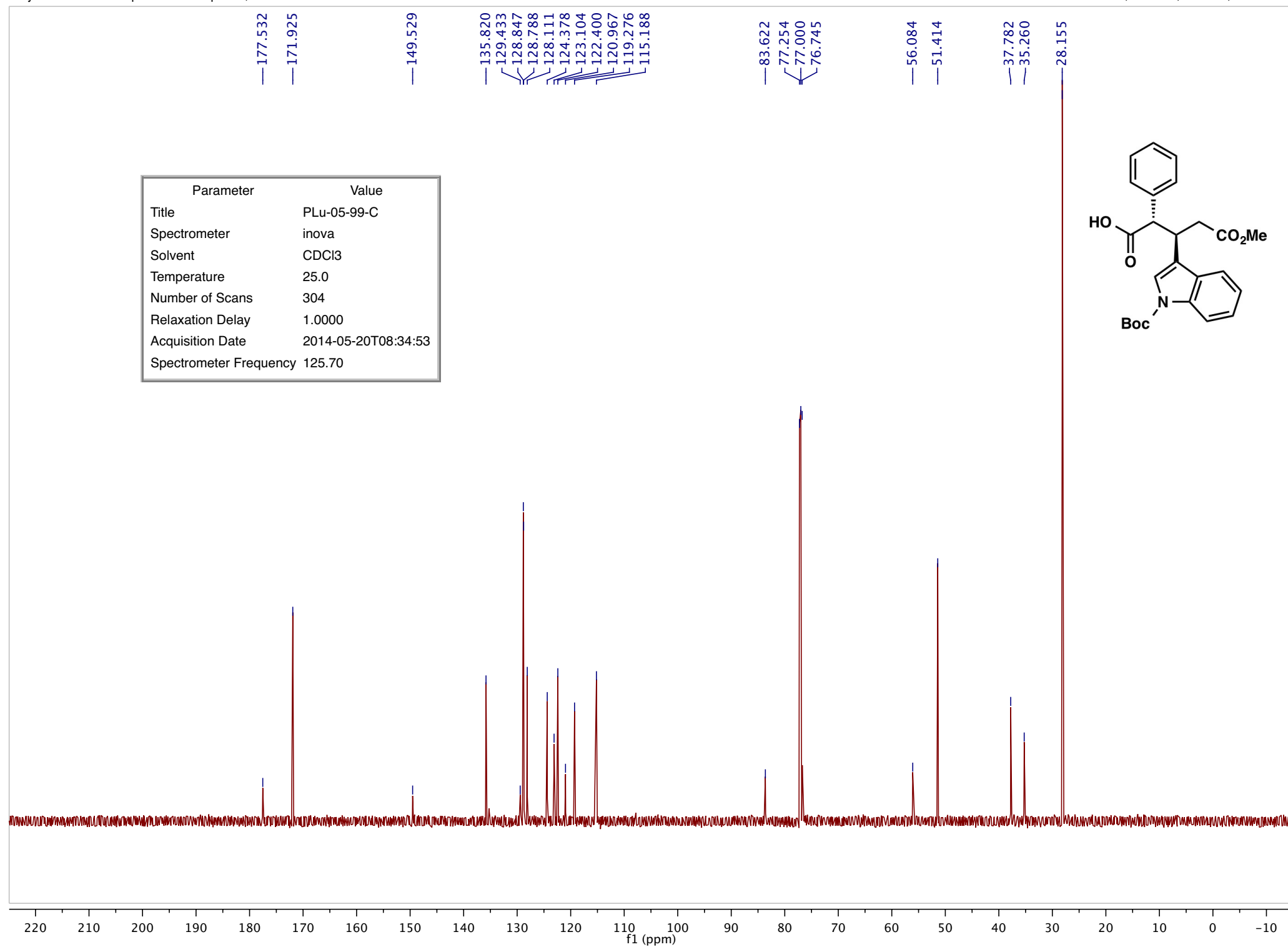




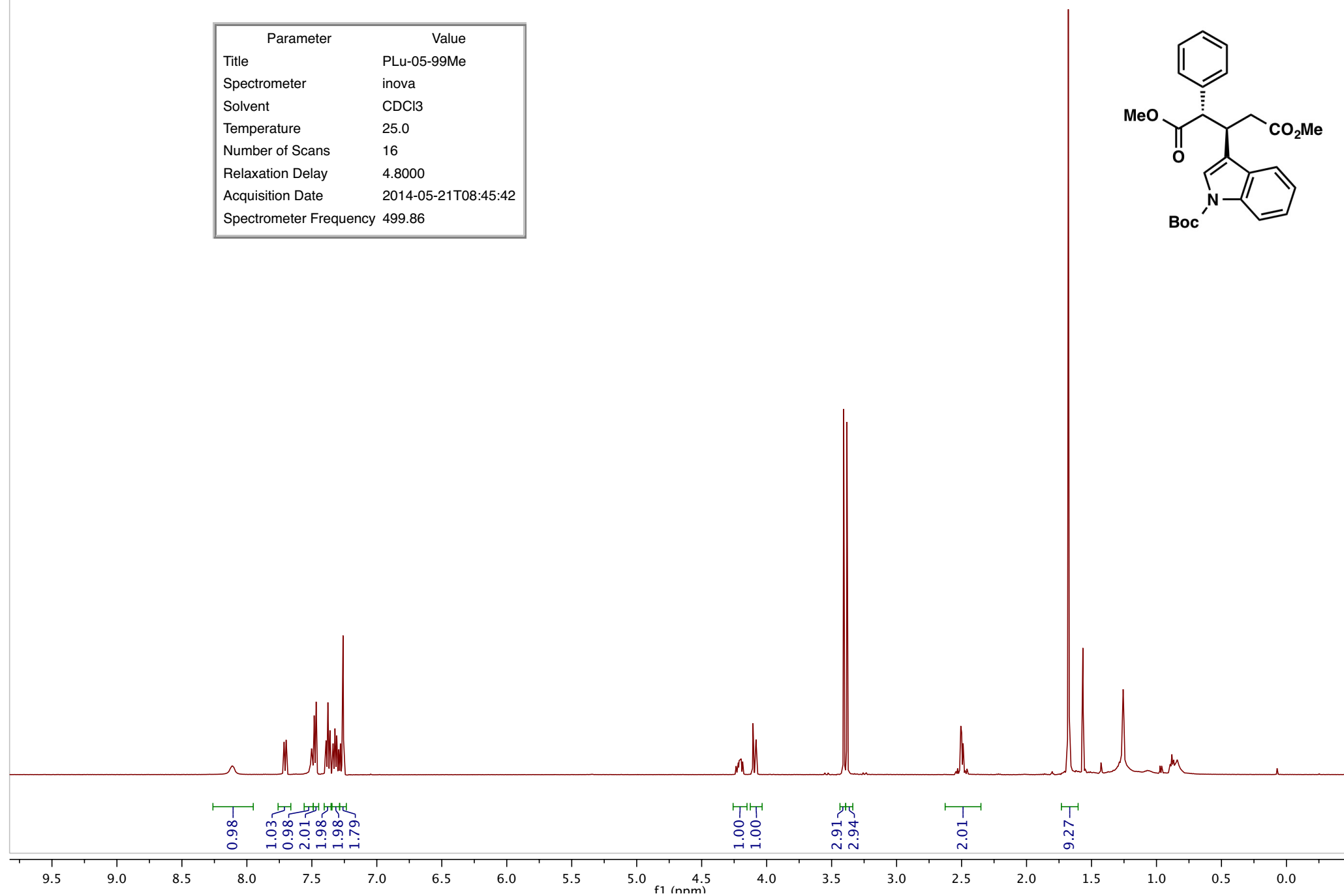
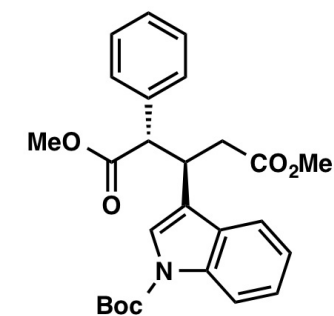


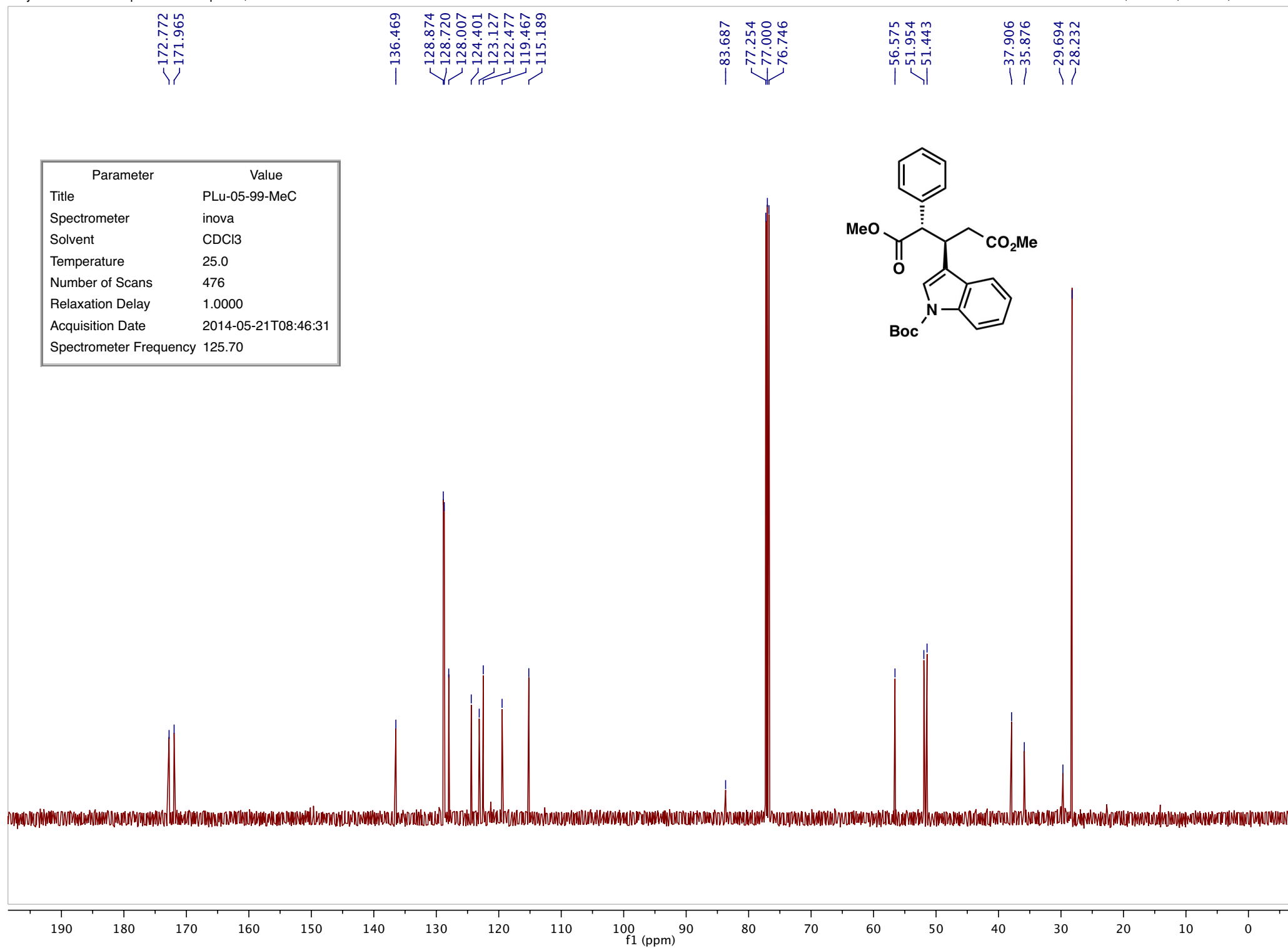
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Title	PLu-05-99-H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-05-20T08:34:38
Spectrometer Frequency	499.86

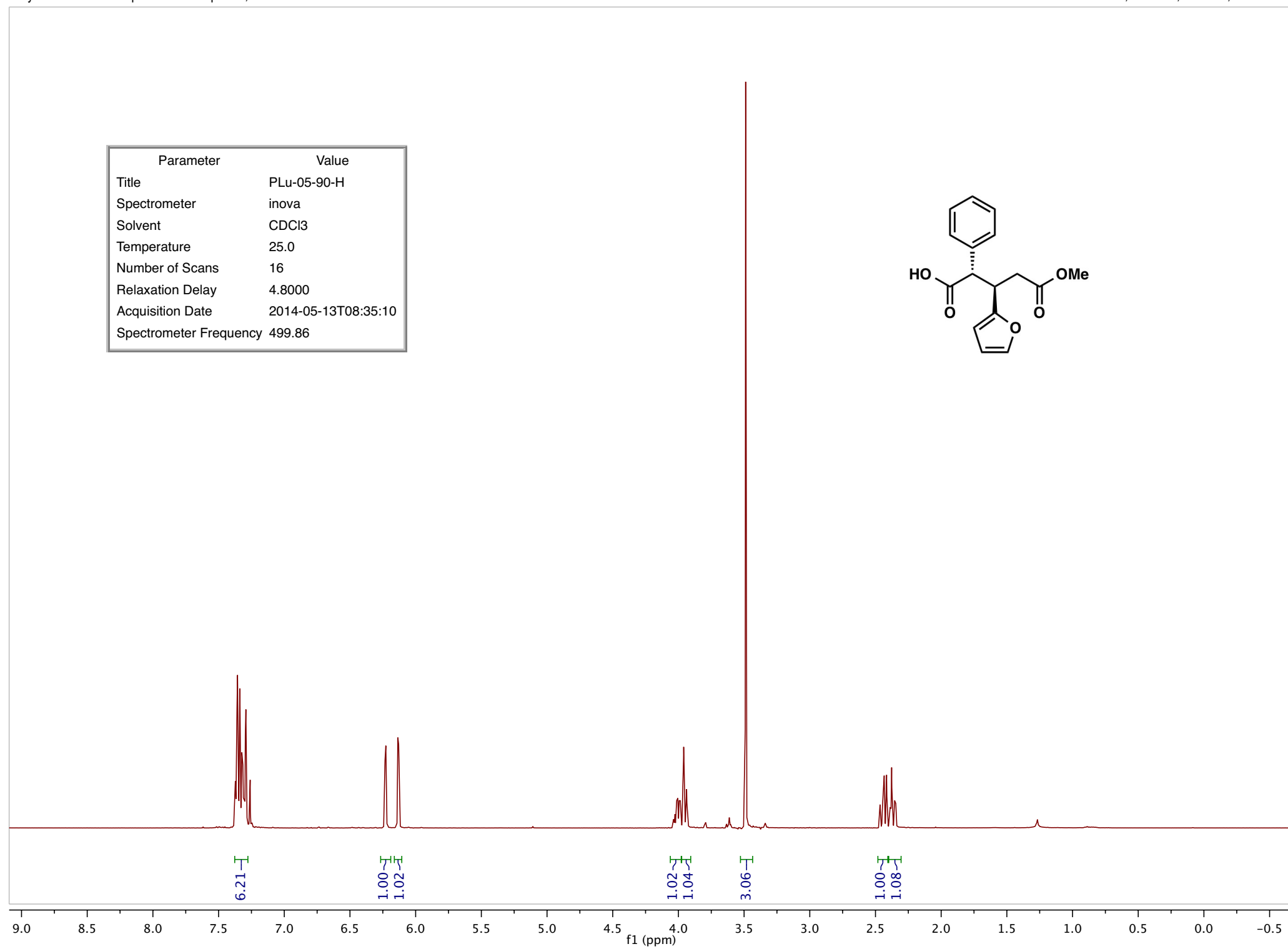


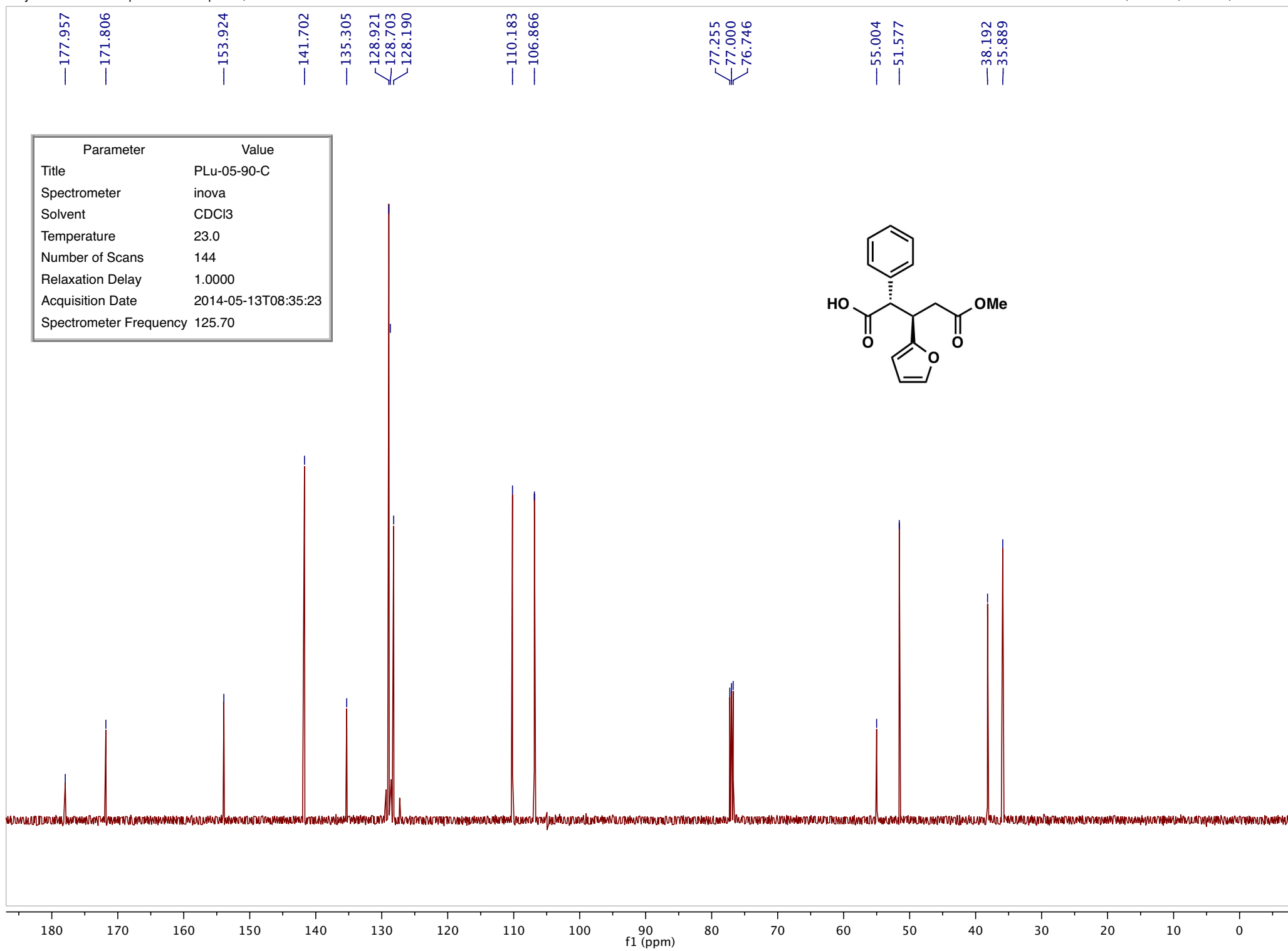


Parameter	Value
Title	PLu-05-99Me
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-05-21T08:45:42
Spectrometer Frequency	499.86

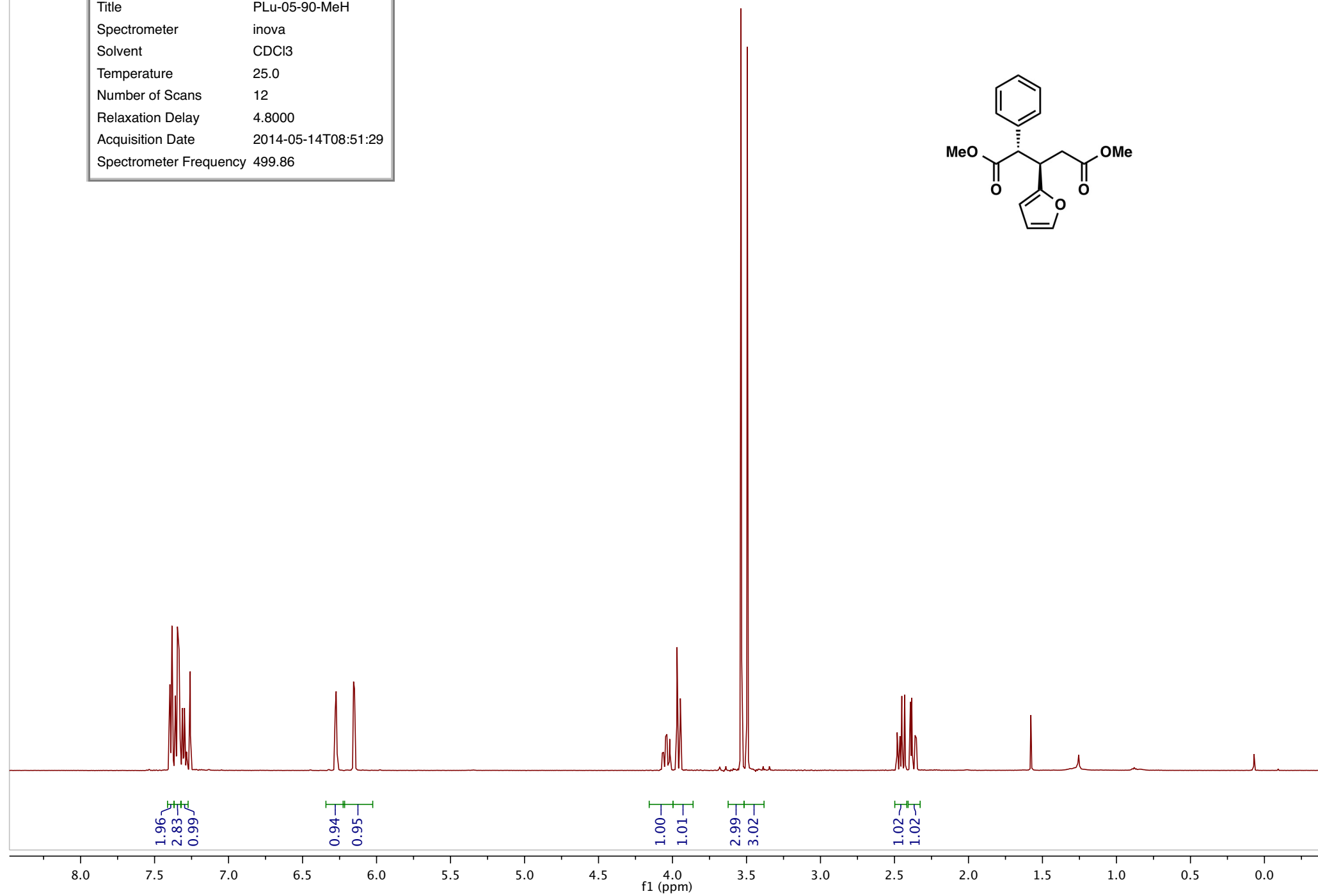
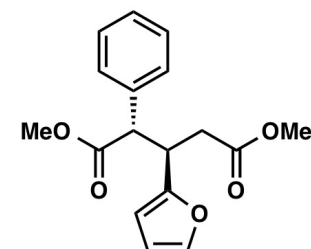


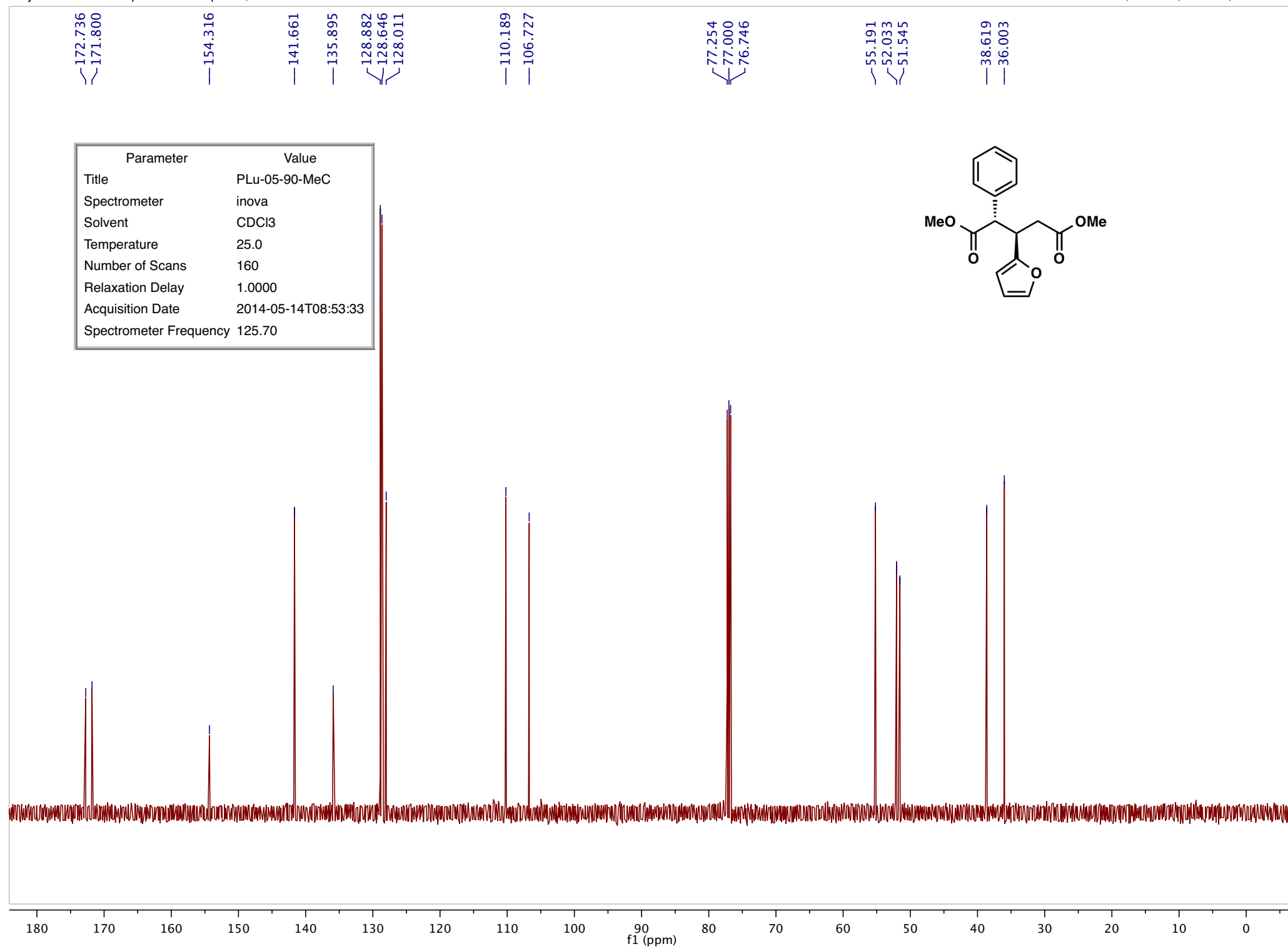




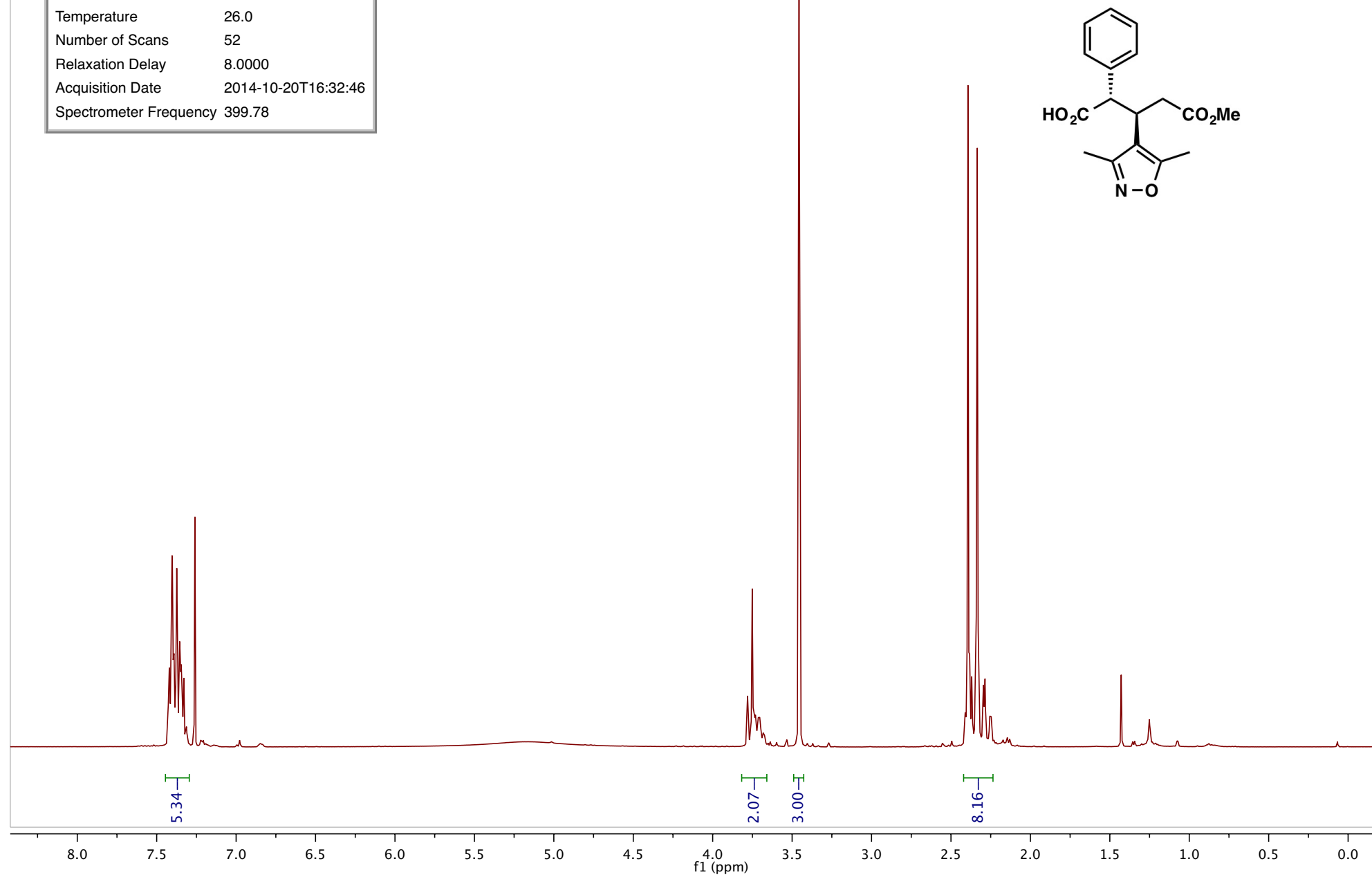


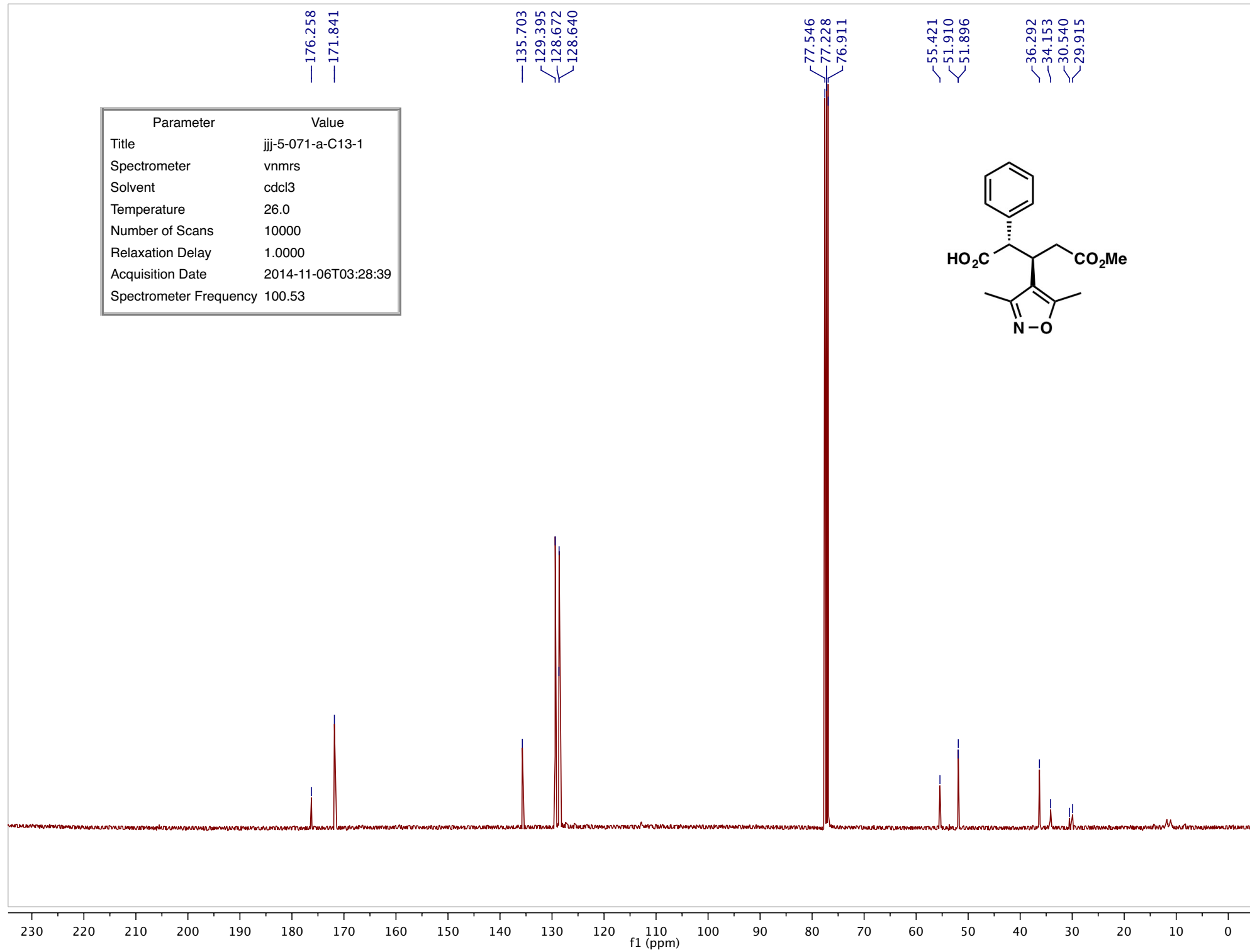
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Title	PLu-05-90-MeH
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	12
Relaxation Delay	4.8000
Acquisition Date	2014-05-14T08:51:29
Spectrometer Frequency	499.86



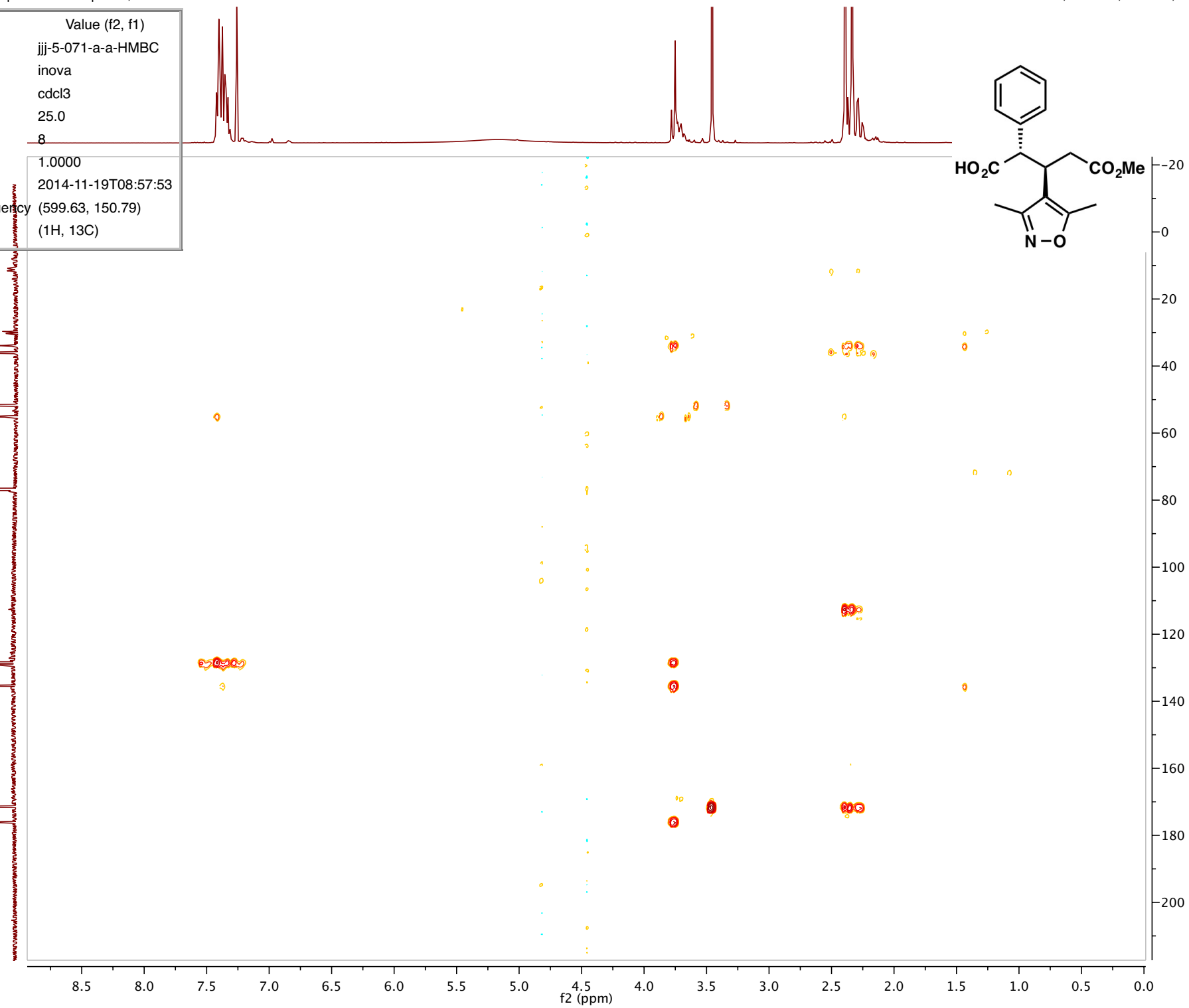


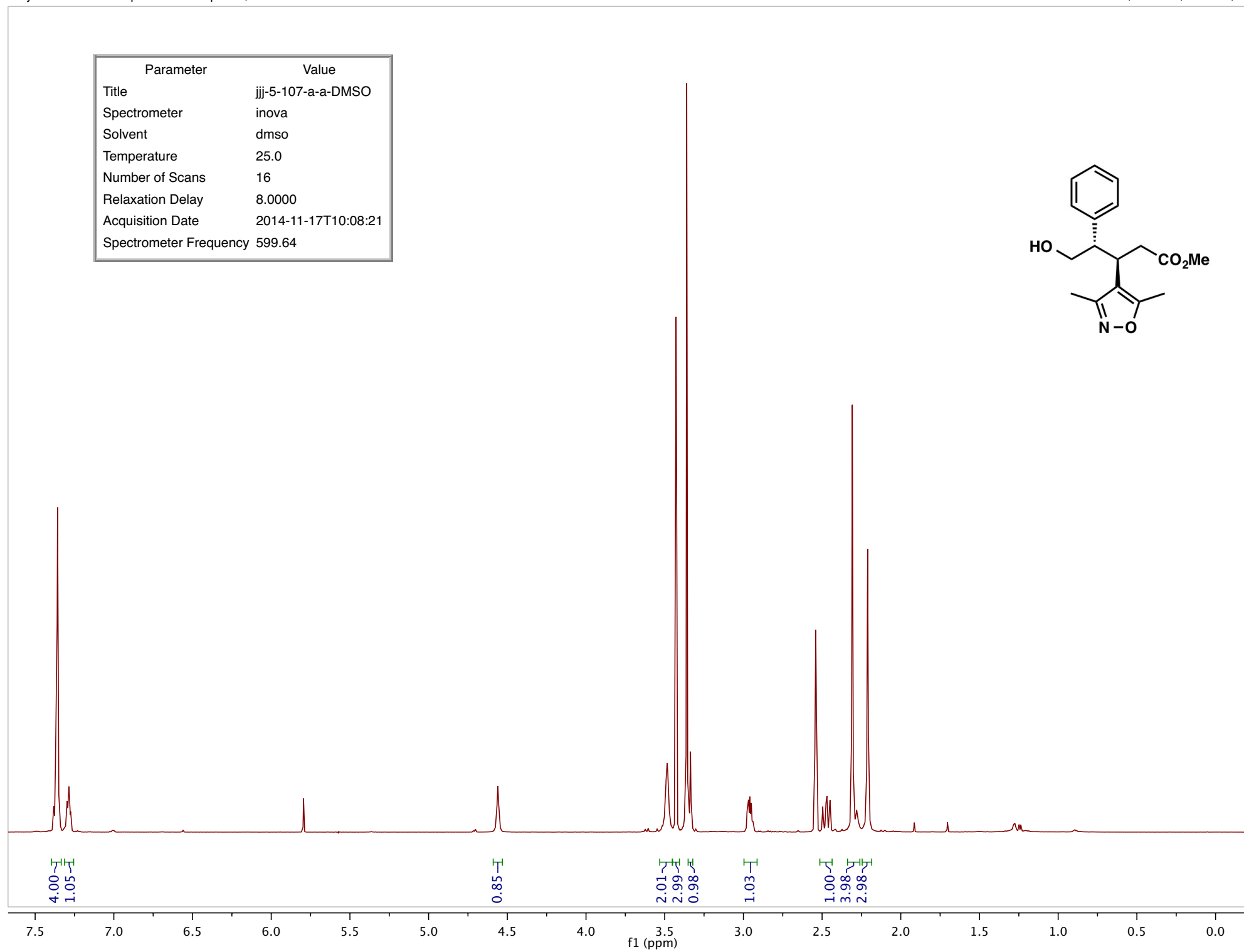
Parameter	Value
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Spectrometer	vnmrs
Solvent	cdcl3
Temperature	26.0
Number of Scans	52
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Spectrometer Frequency	399.78

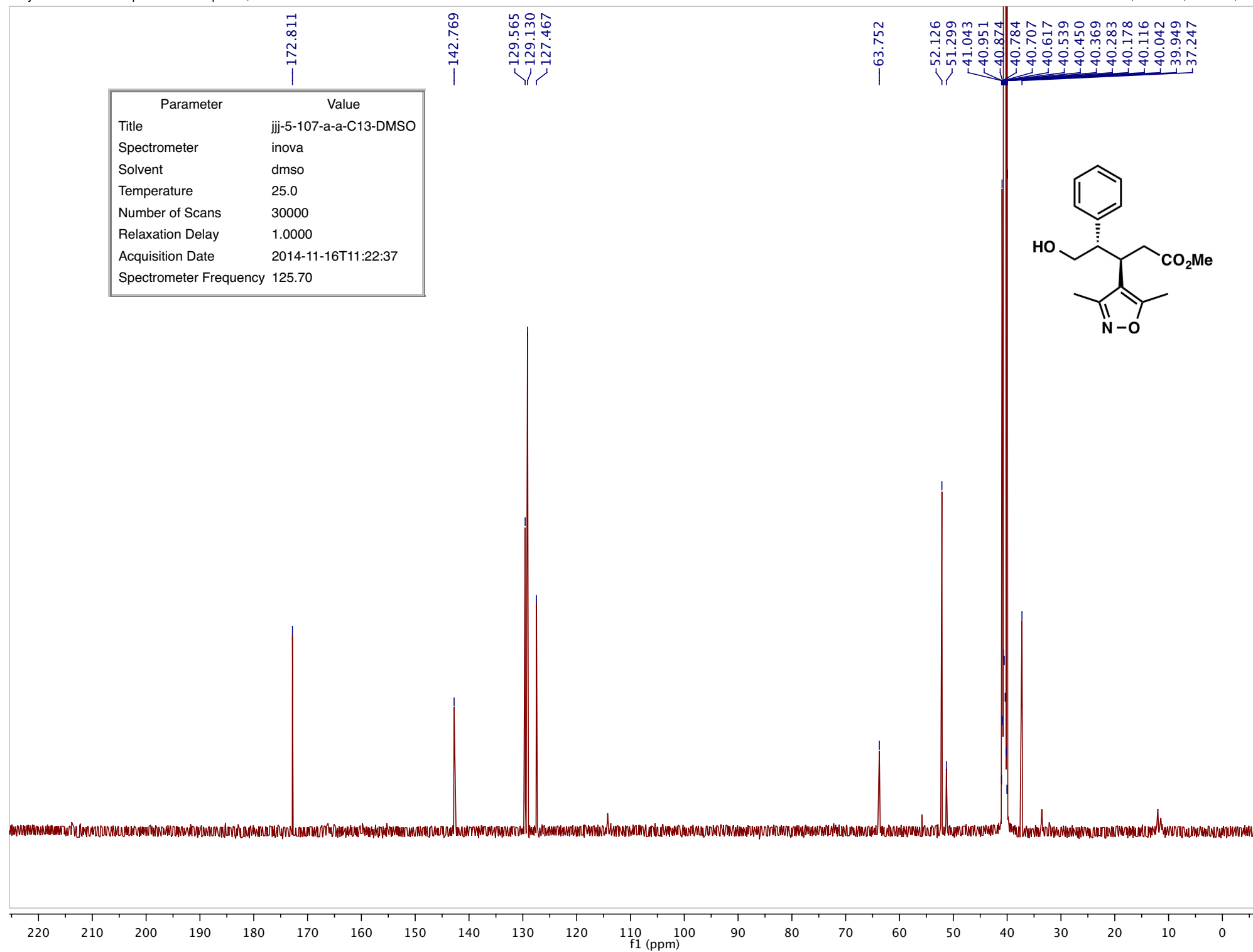




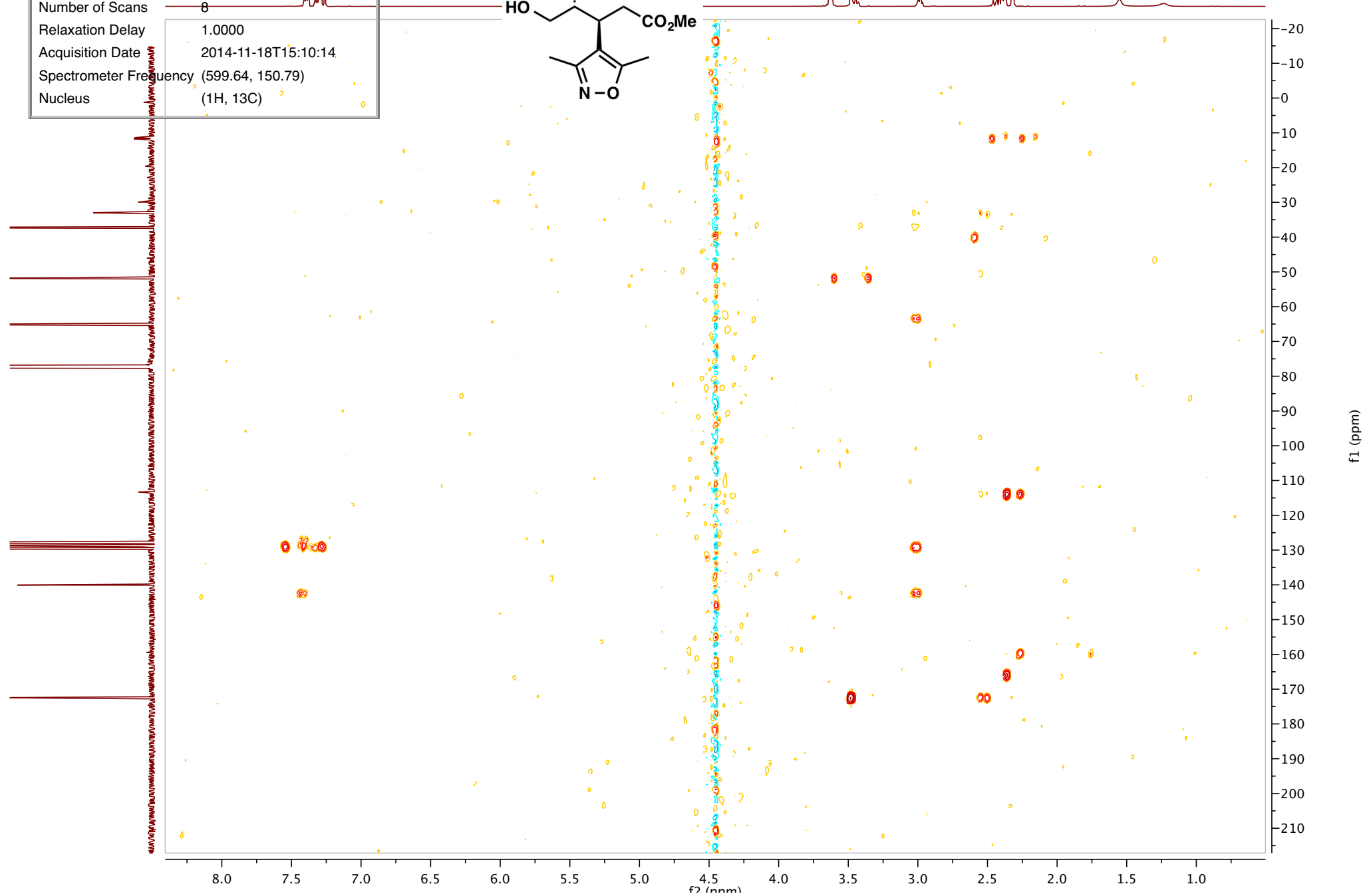
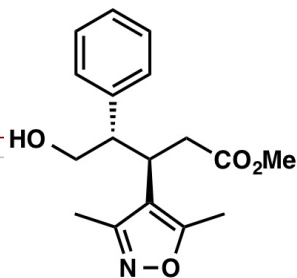
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Title	jij-5-071-a-a-HMBC
Spectrometer	inova
Solvent	cdcl3
Temperature	25.0
Number of Scans	8
Relaxation Delay	1.0000
Acquisition Date	2014-11-19T08:57:53
Spectrometer Frequency	(599.63, 150.79)
Nucleus	(1H, 13C)



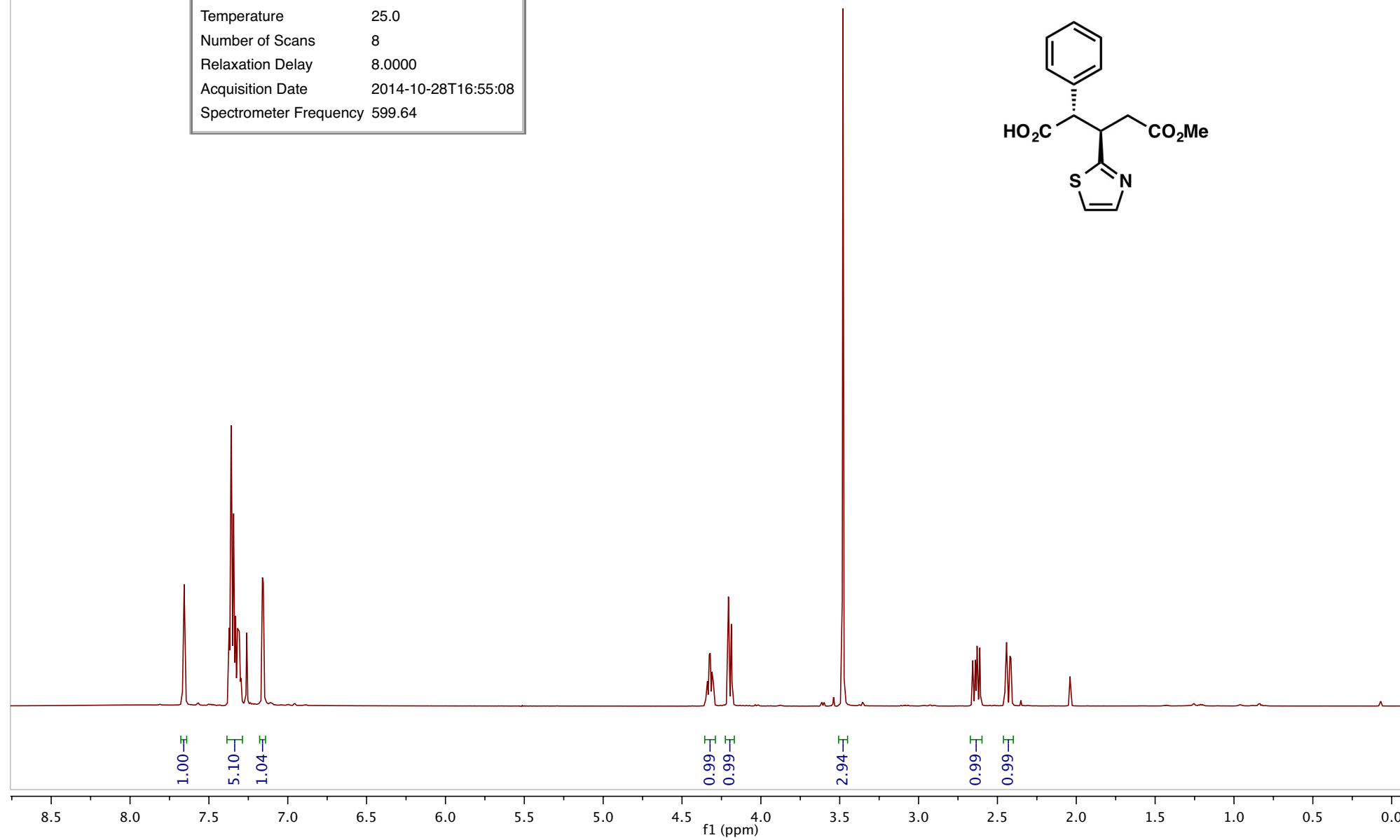
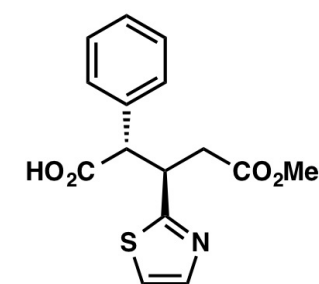


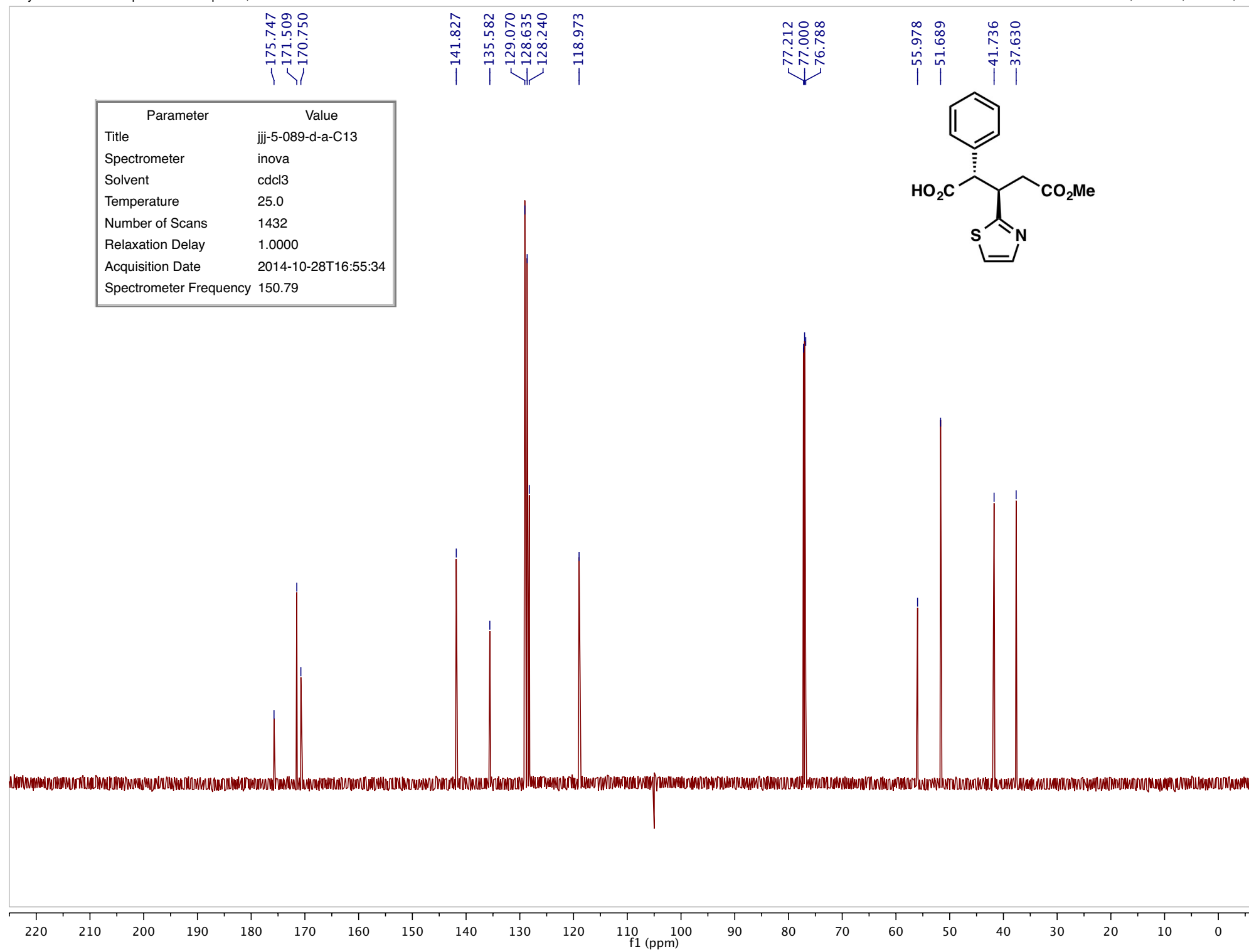


Parameter	Value (f2, f1)
Title	jjj-5-107-a-a-HMBC-DMSO
Spectrometer	inova
Solvent	dmsO
Temperature	25.0
Number of Scans	8
Relaxation Delay	1.0000
Acquisition Date	2014-11-18T15:10:14
Spectrometer Frequency	(599.64, 150.79)
Nucleus	(1H, 13C)

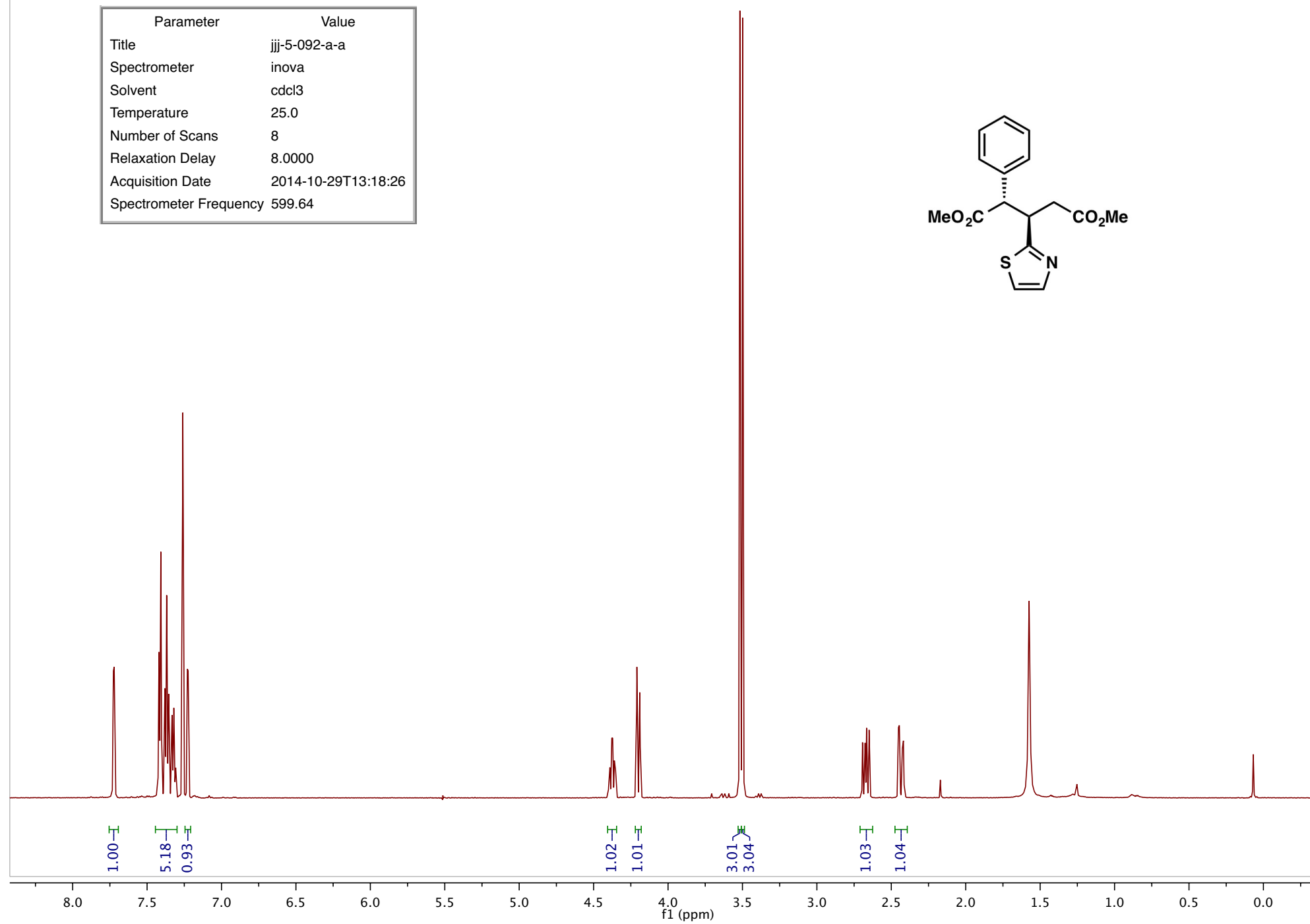
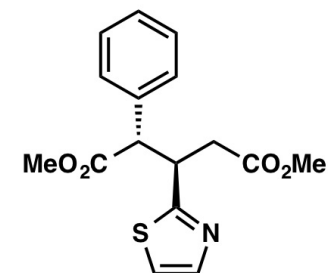


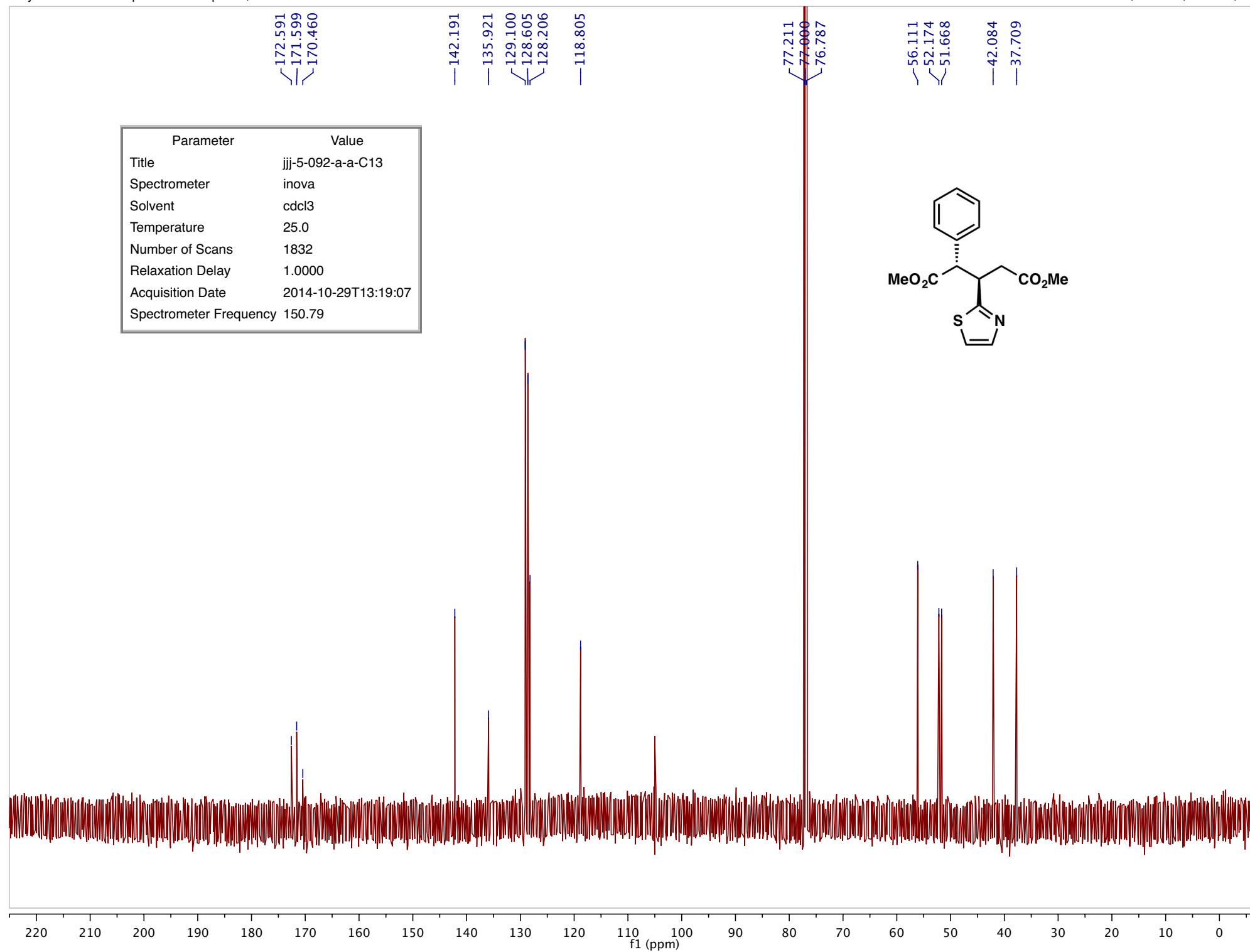
Parameter	Value
Title	jjj-5-089-d-a
Spectrometer	inova
Solvent	cdcl3
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-10-28T16:55:08
Spectrometer Frequency	599.64

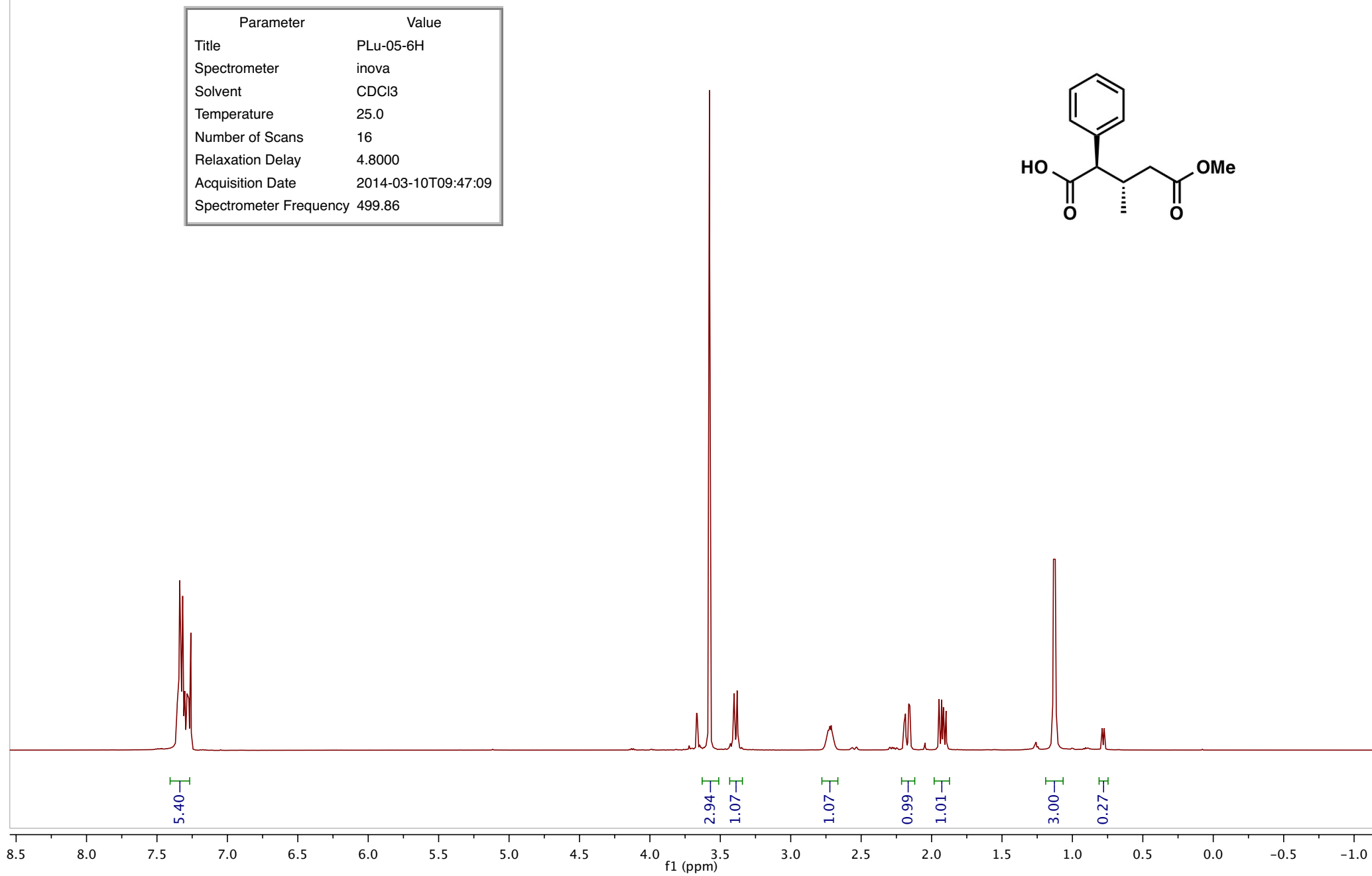


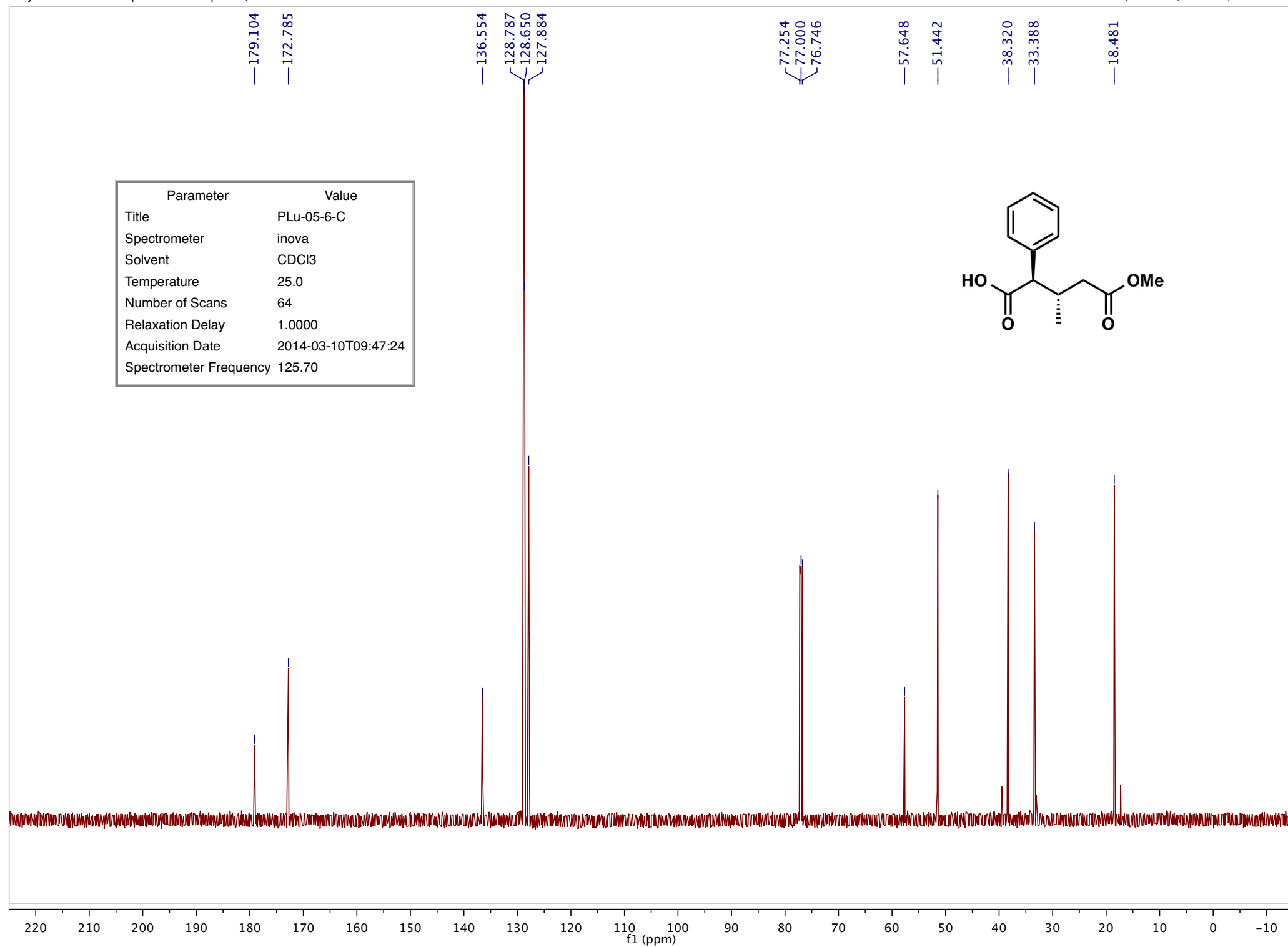


Parameter	Value
Title	jjj-5-092-a-a
Spectrometer	inova
Solvent	cdcl3
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-10-29T13:18:26
Spectrometer Frequency	599.64

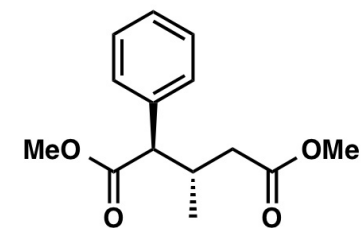








Parameter	Value
Title	PLu-05-55-Me
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-04-21T09:05:41
Spectrometer Frequency	499.86



4.26
2.45

2.87
3.00
1.08

1.12

1.06

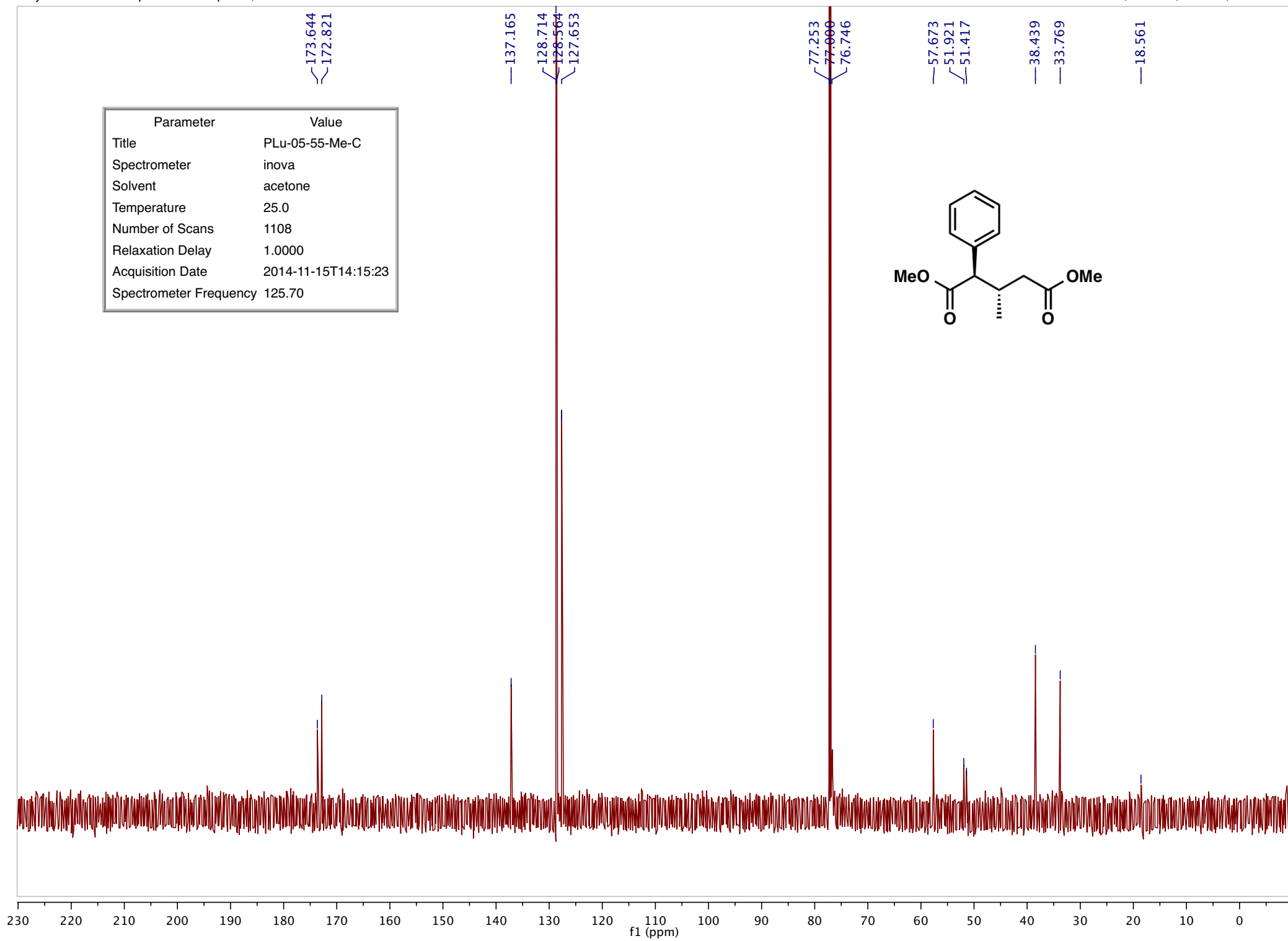
1.06

3.21

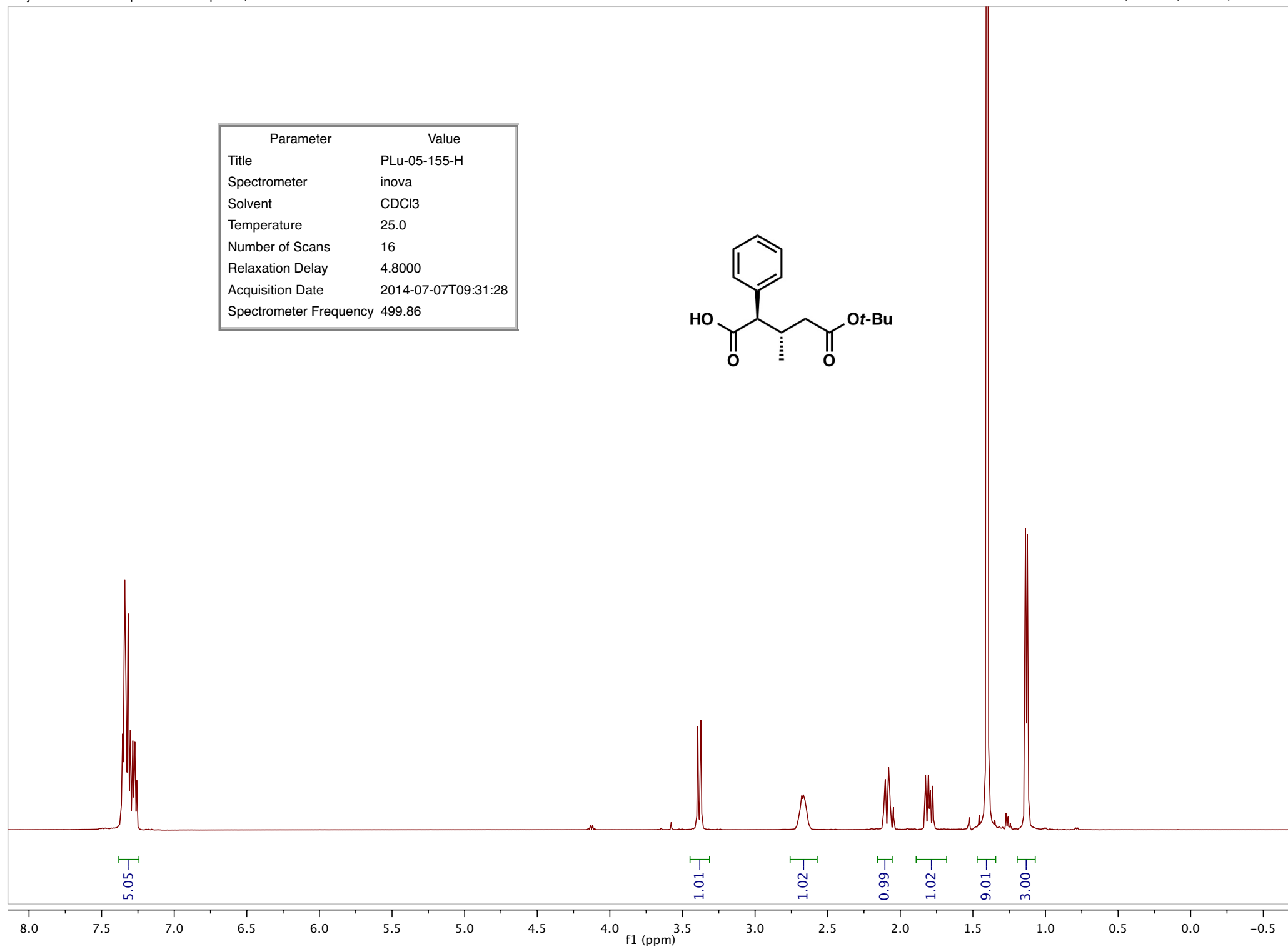
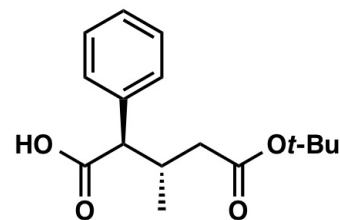
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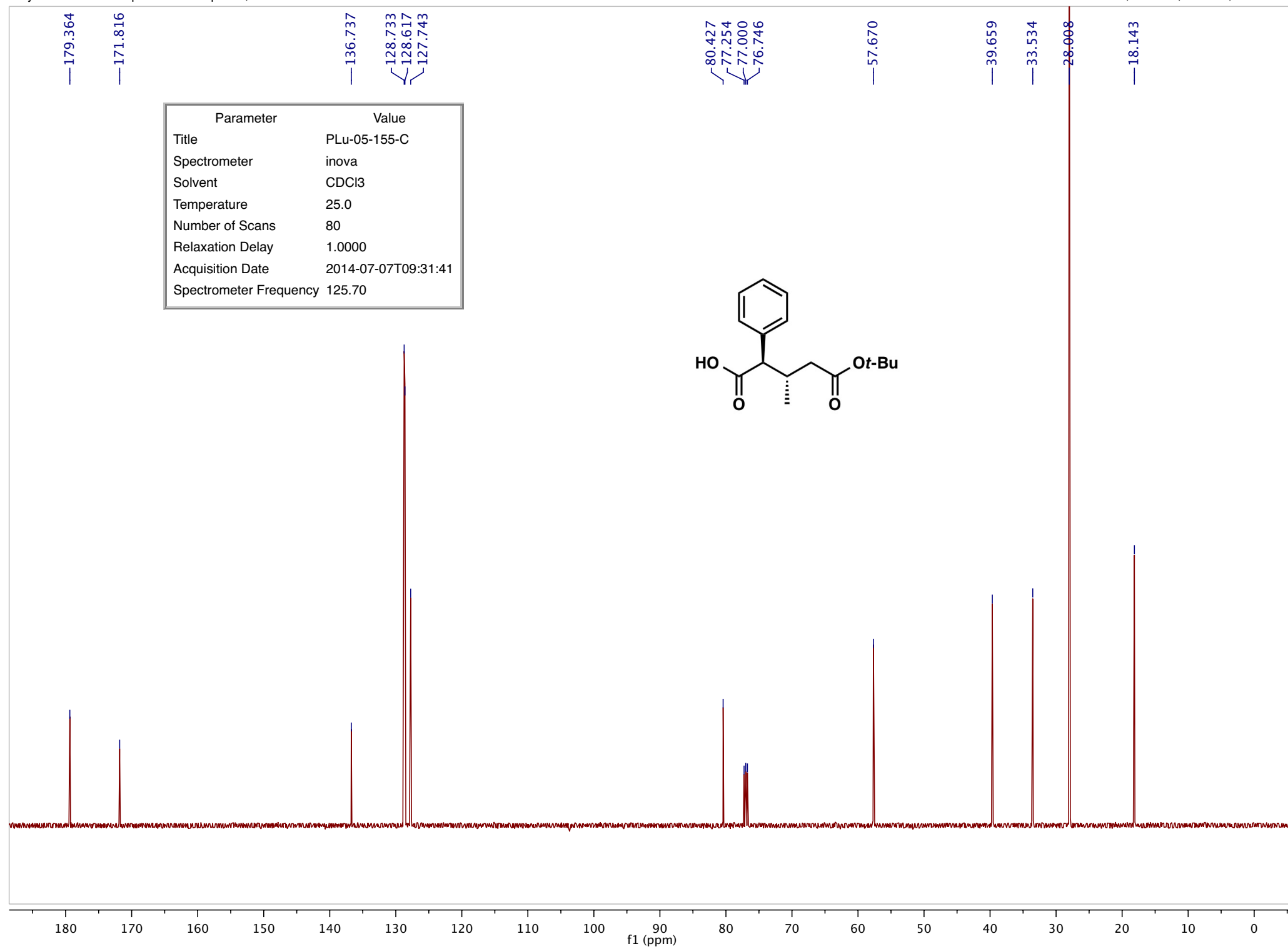
8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.5

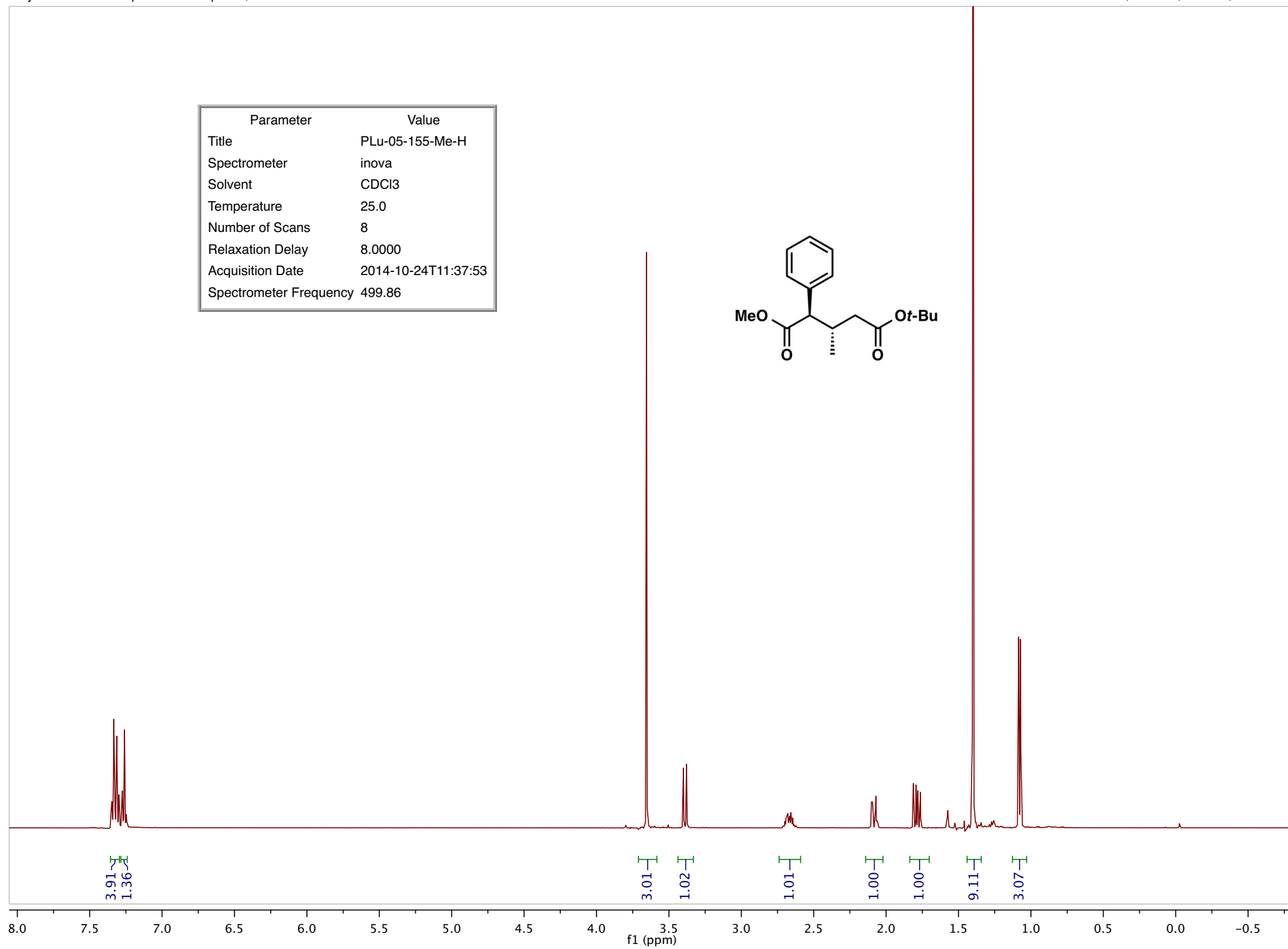
f1 (ppm)

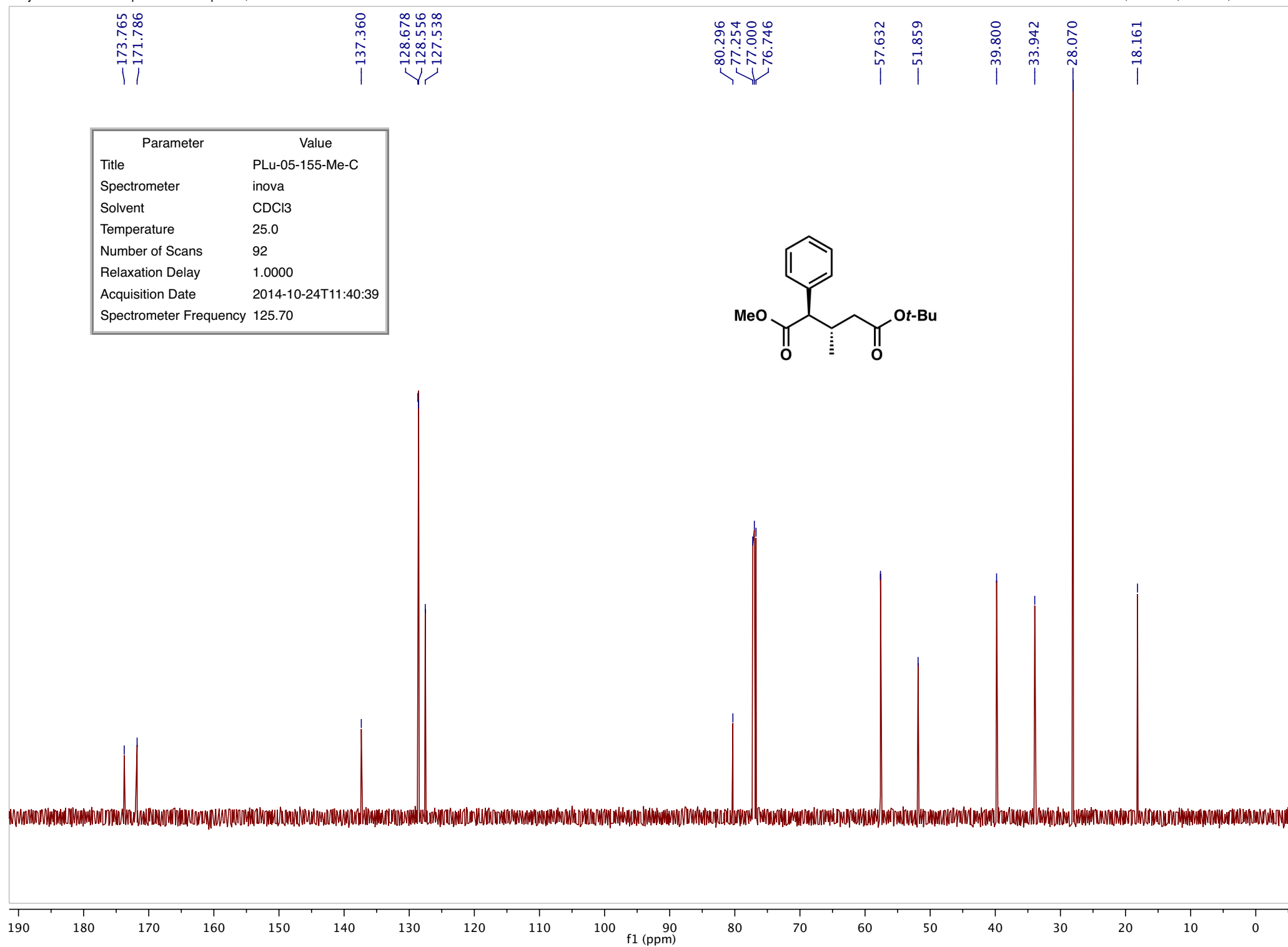


Parameter	Value
Title	PLu-05-155-H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-07-07T09:31:28
Spectrometer Frequency	499.86

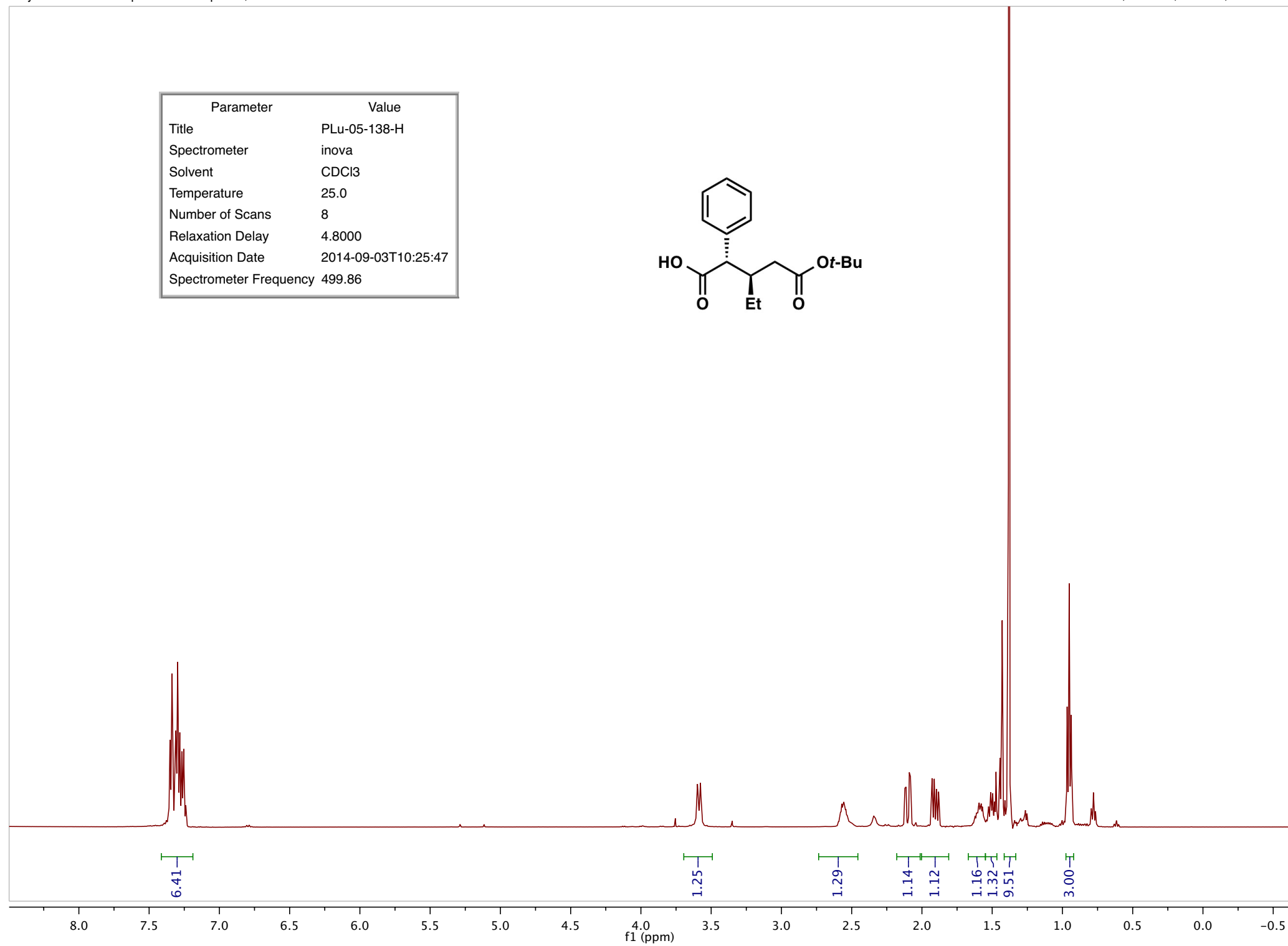
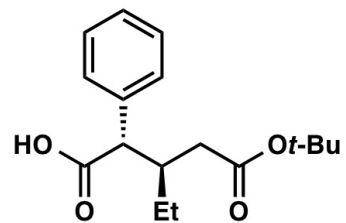


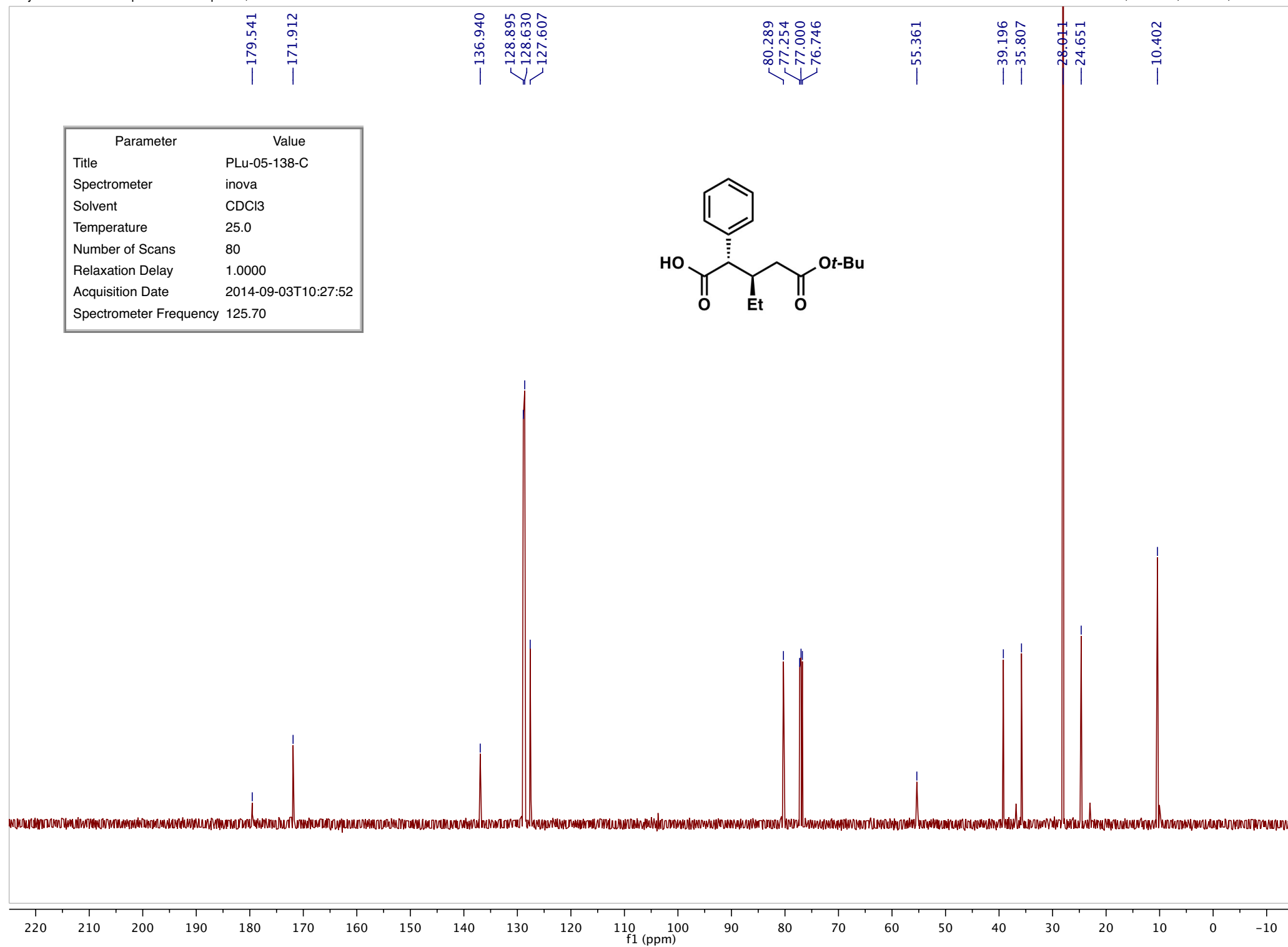


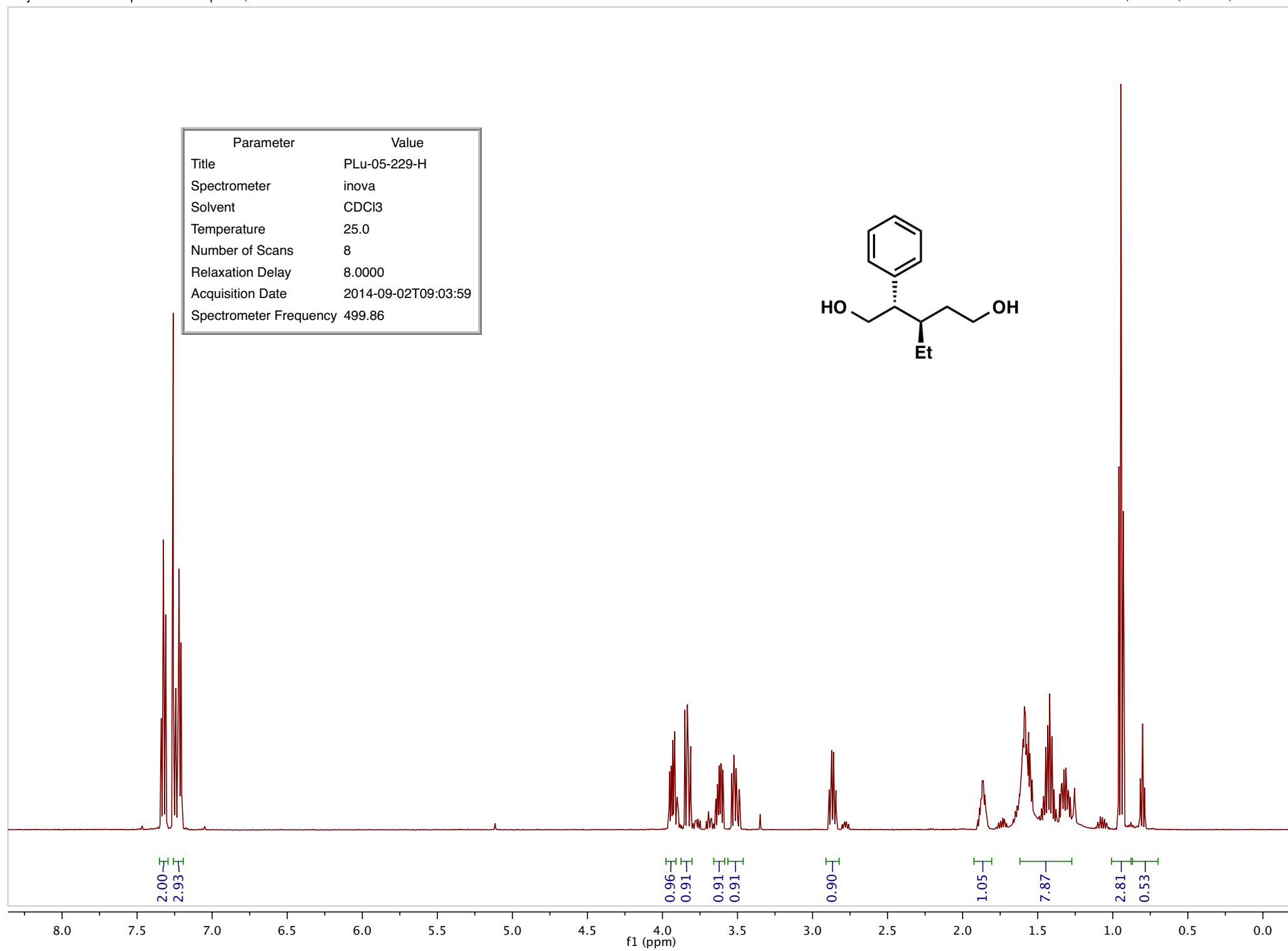


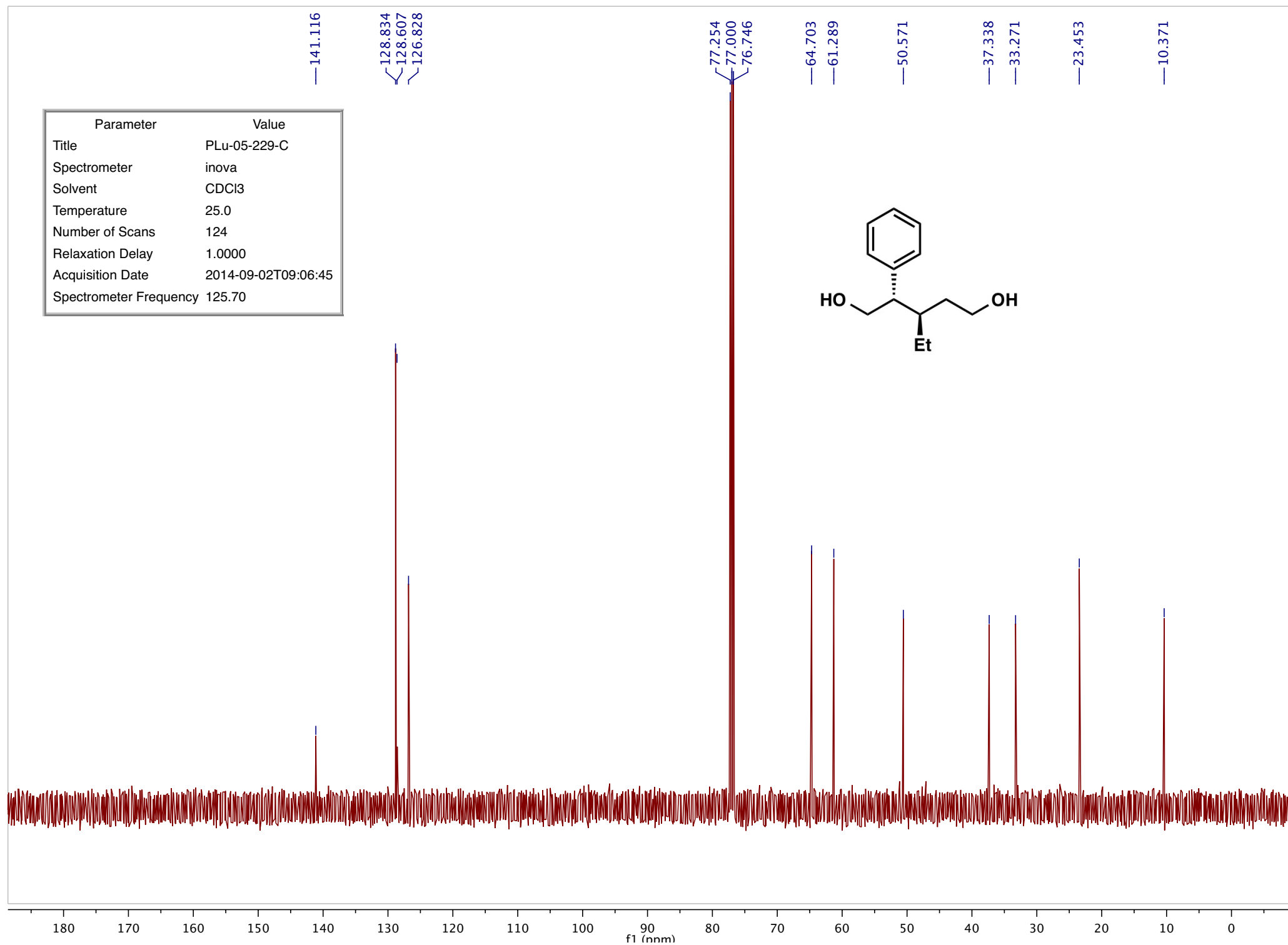


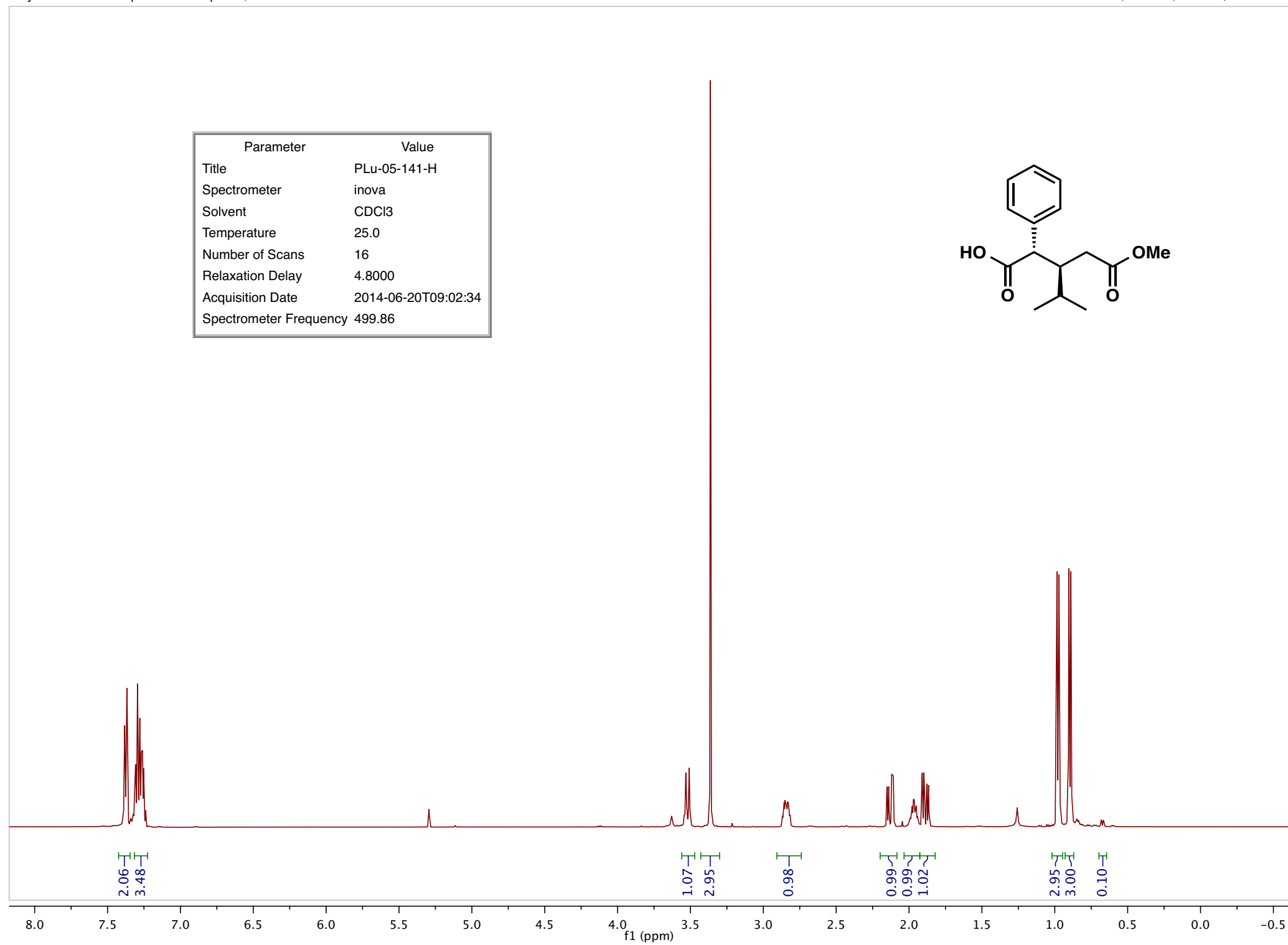
Parameter	Value
Title	PLu-05-138-H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	8
Relaxation Delay	4.8000
Acquisition Date	2014-09-03T10:25:47
Spectrometer Frequency	499.86

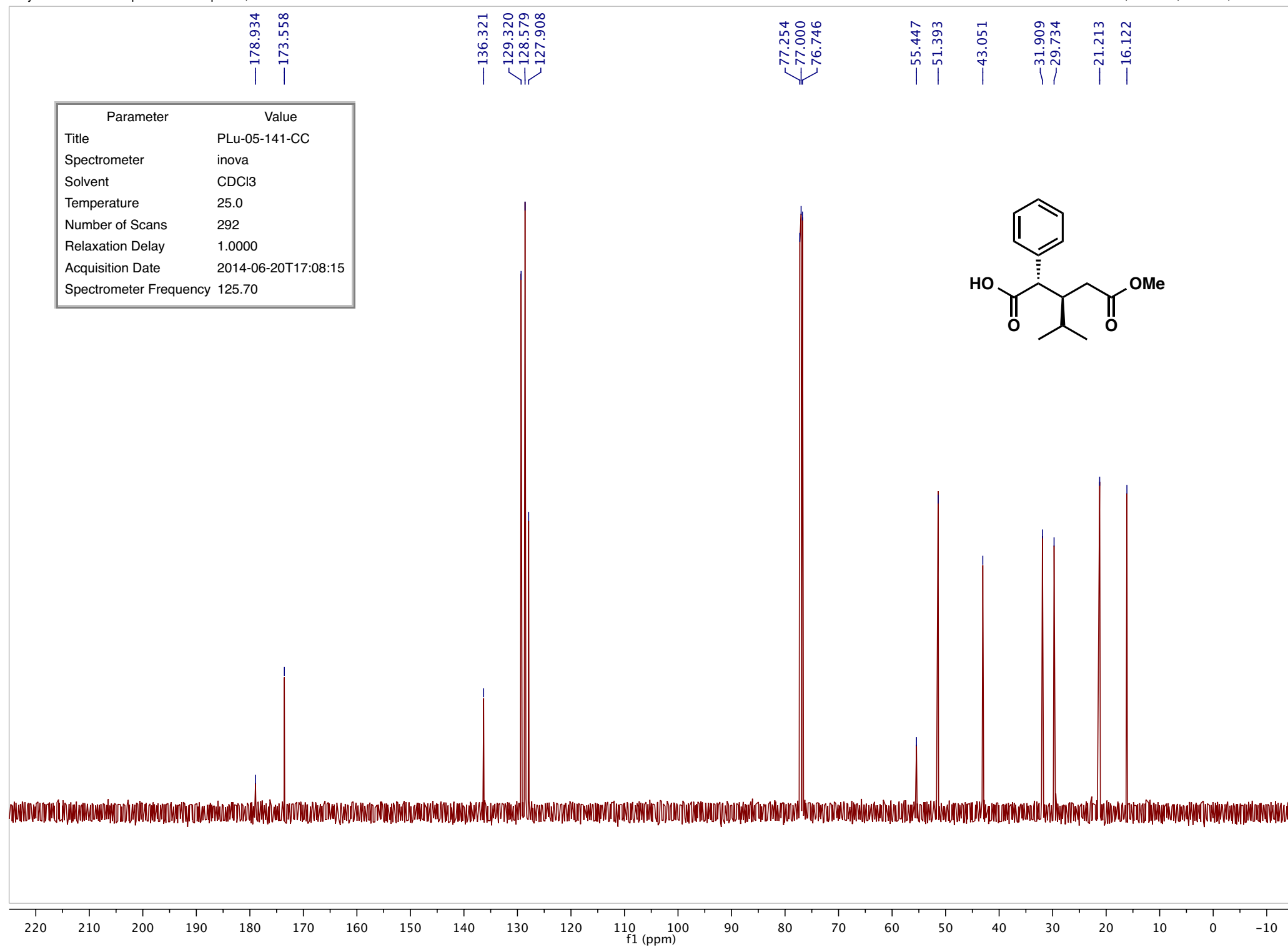


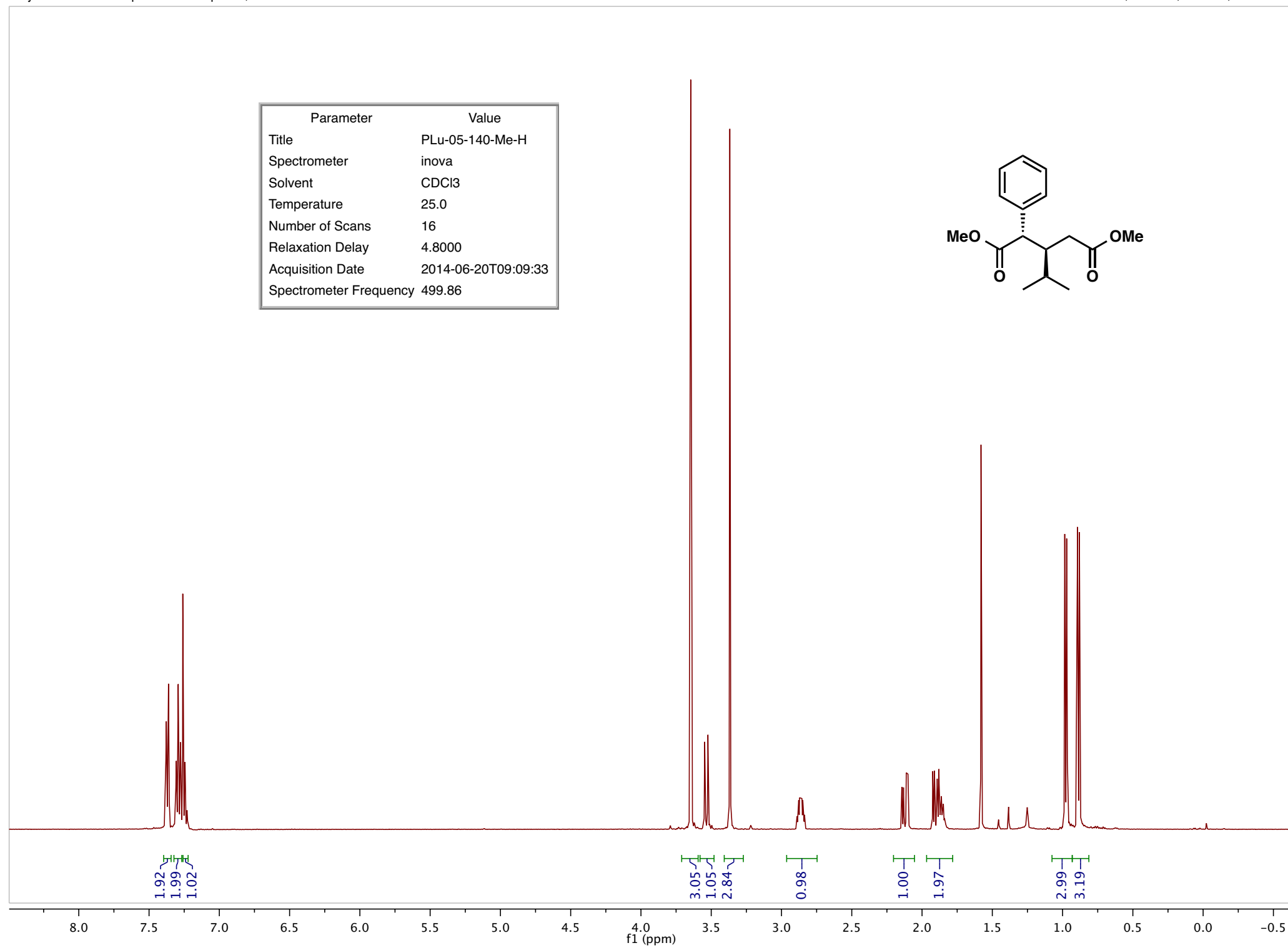


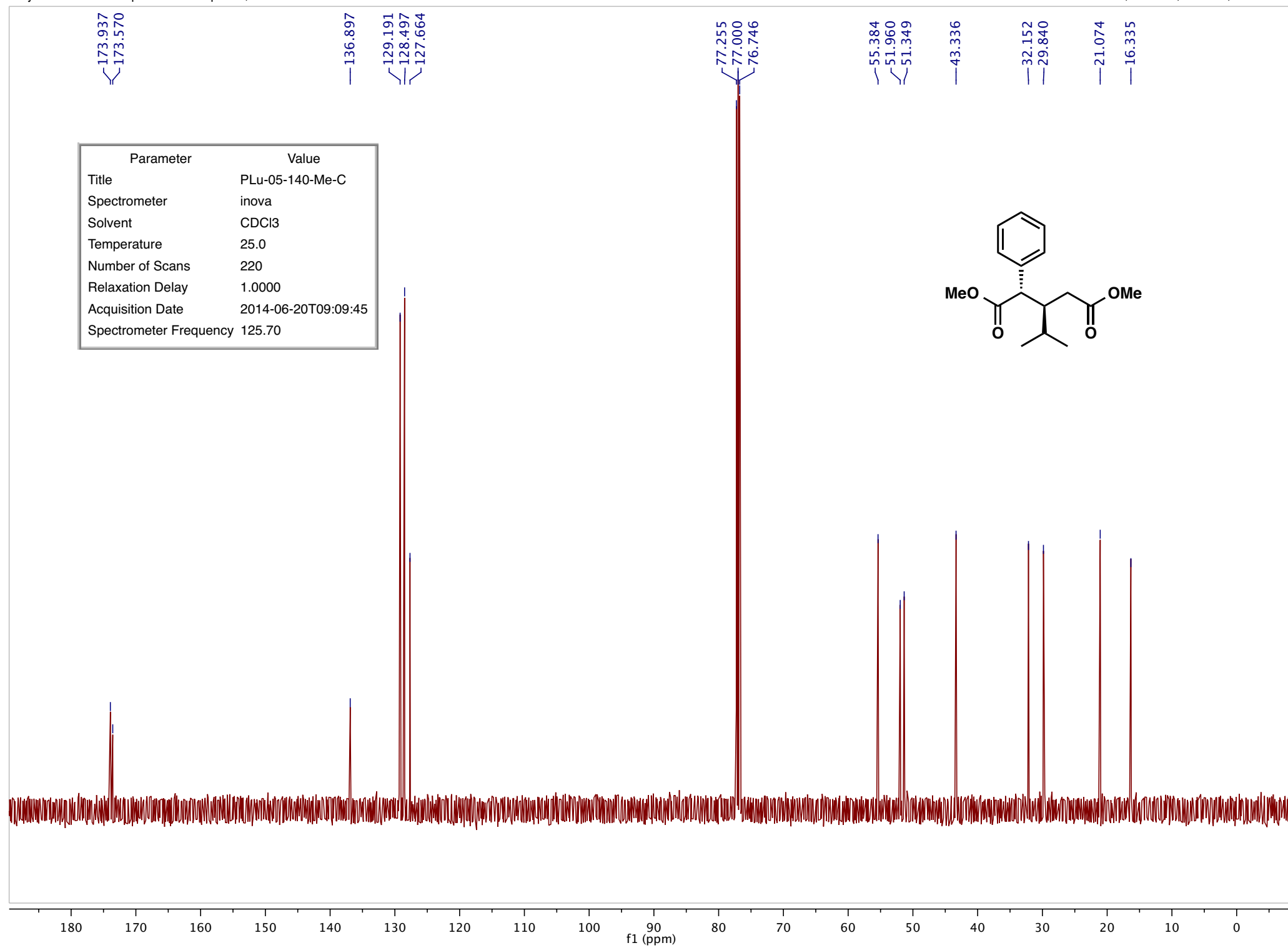




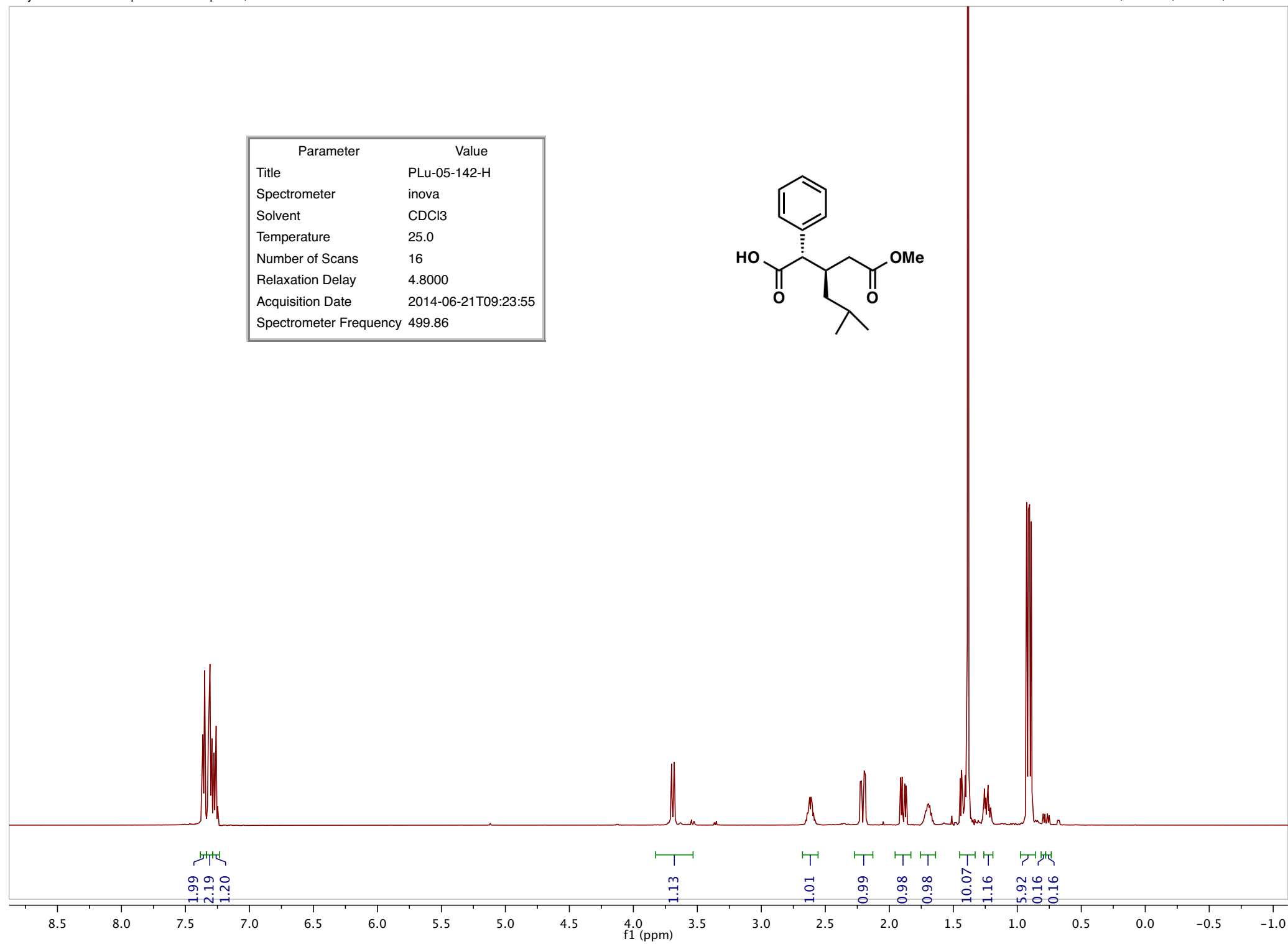
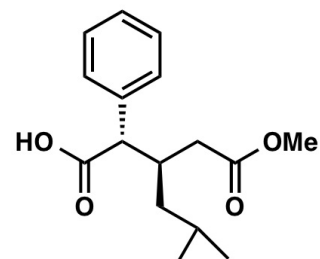


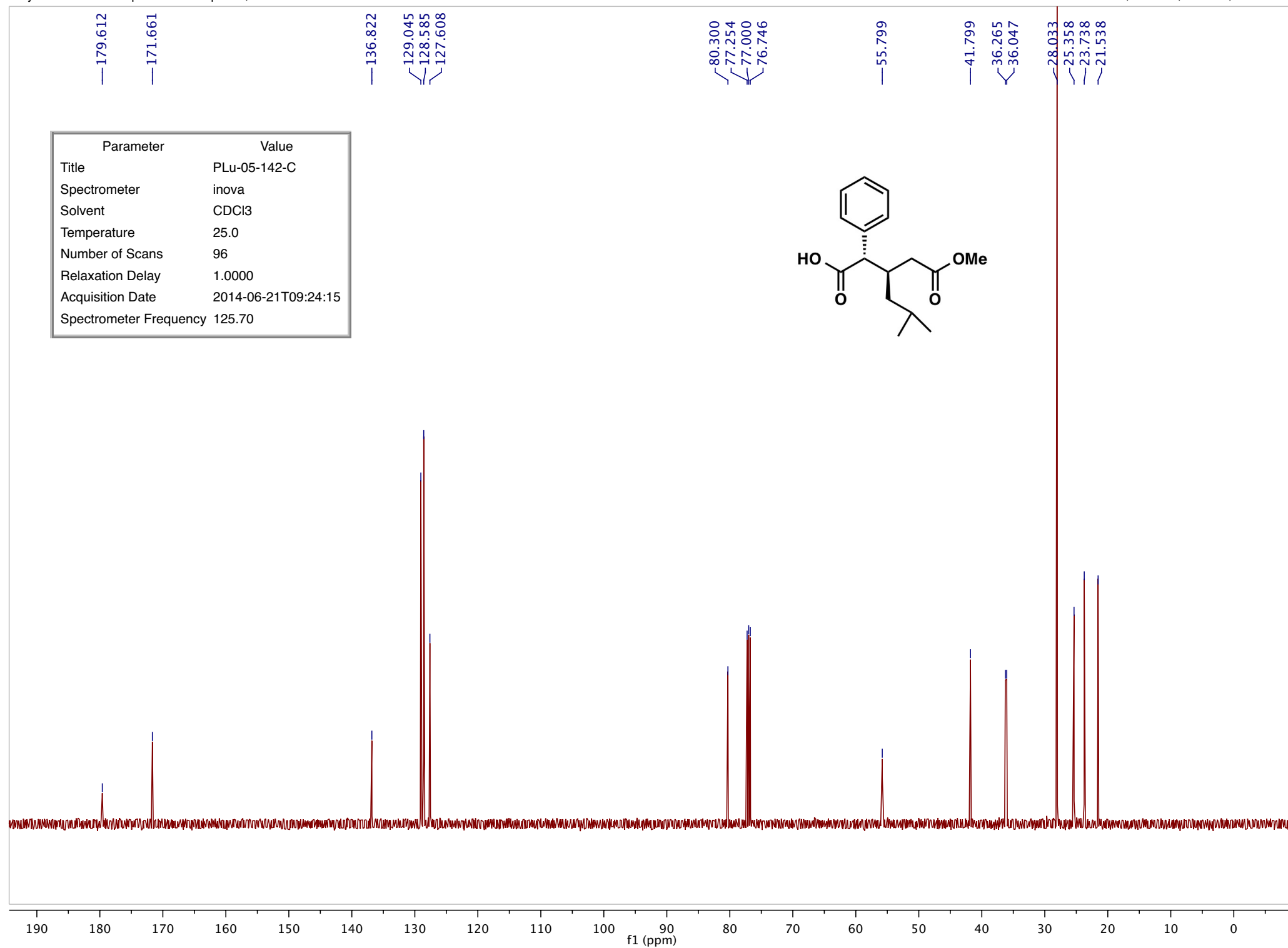


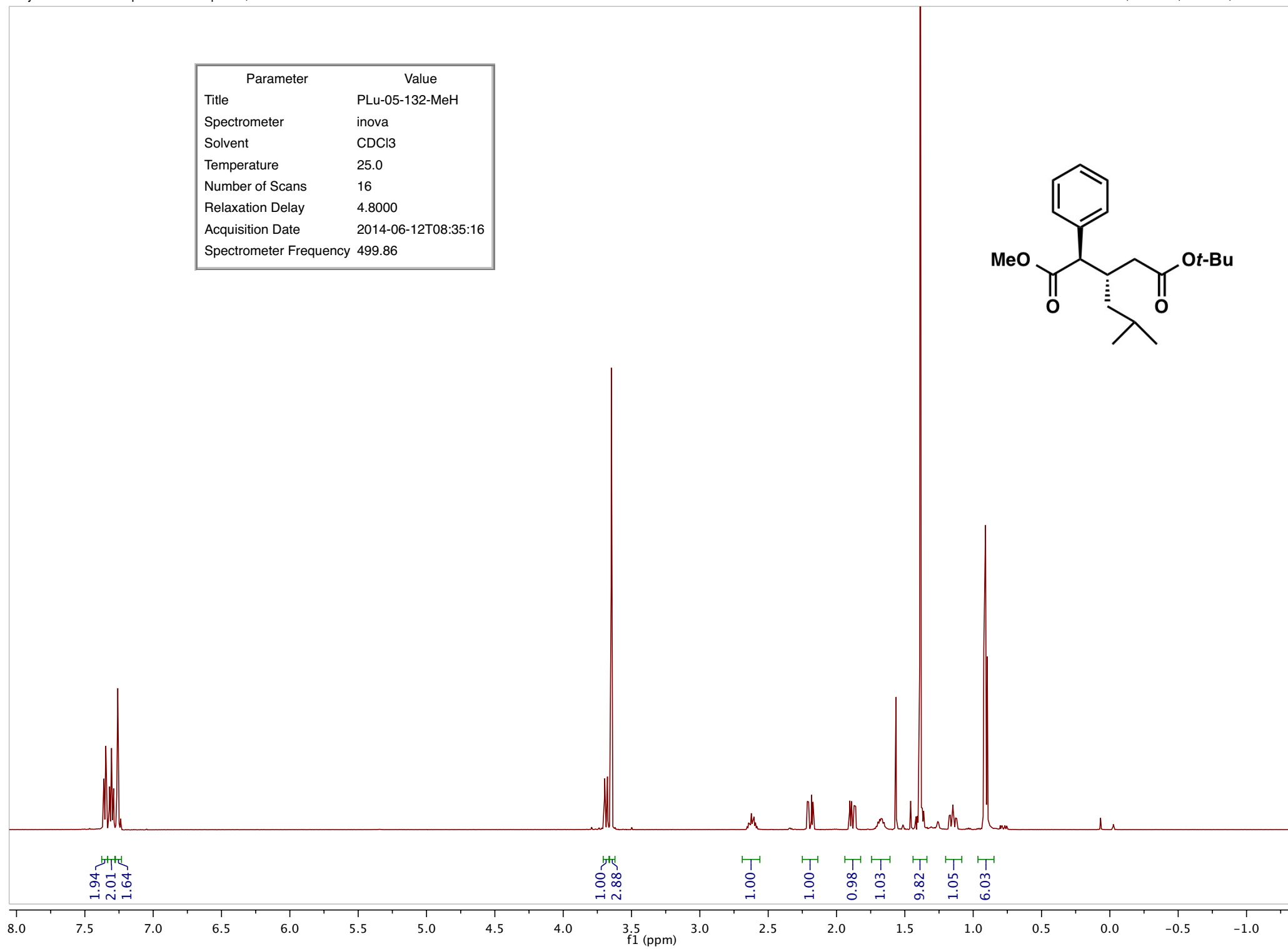


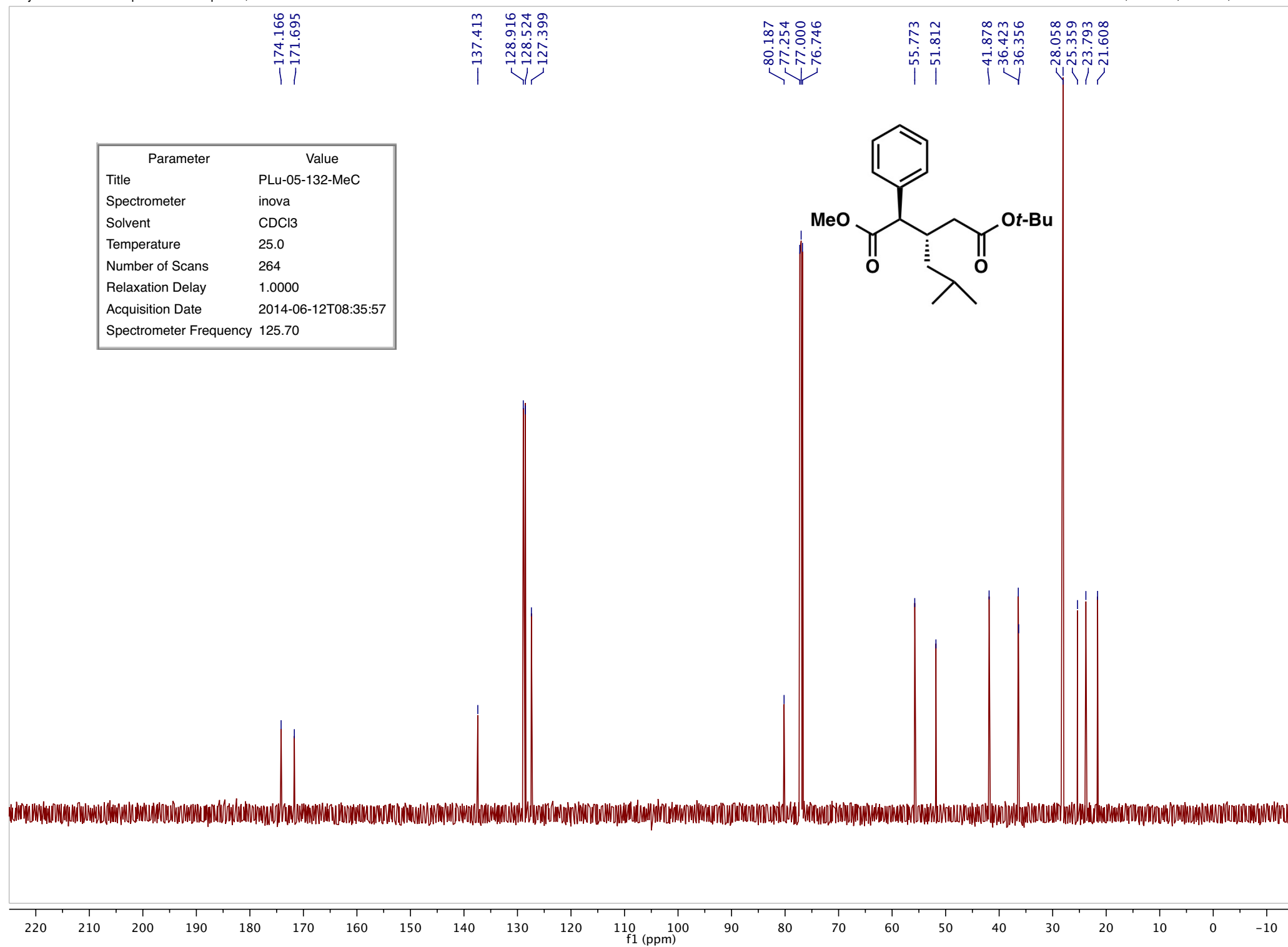


Parameter	Value
Title	PLu-05-142-H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-06-21T09:23:55
Spectrometer Frequency	499.86

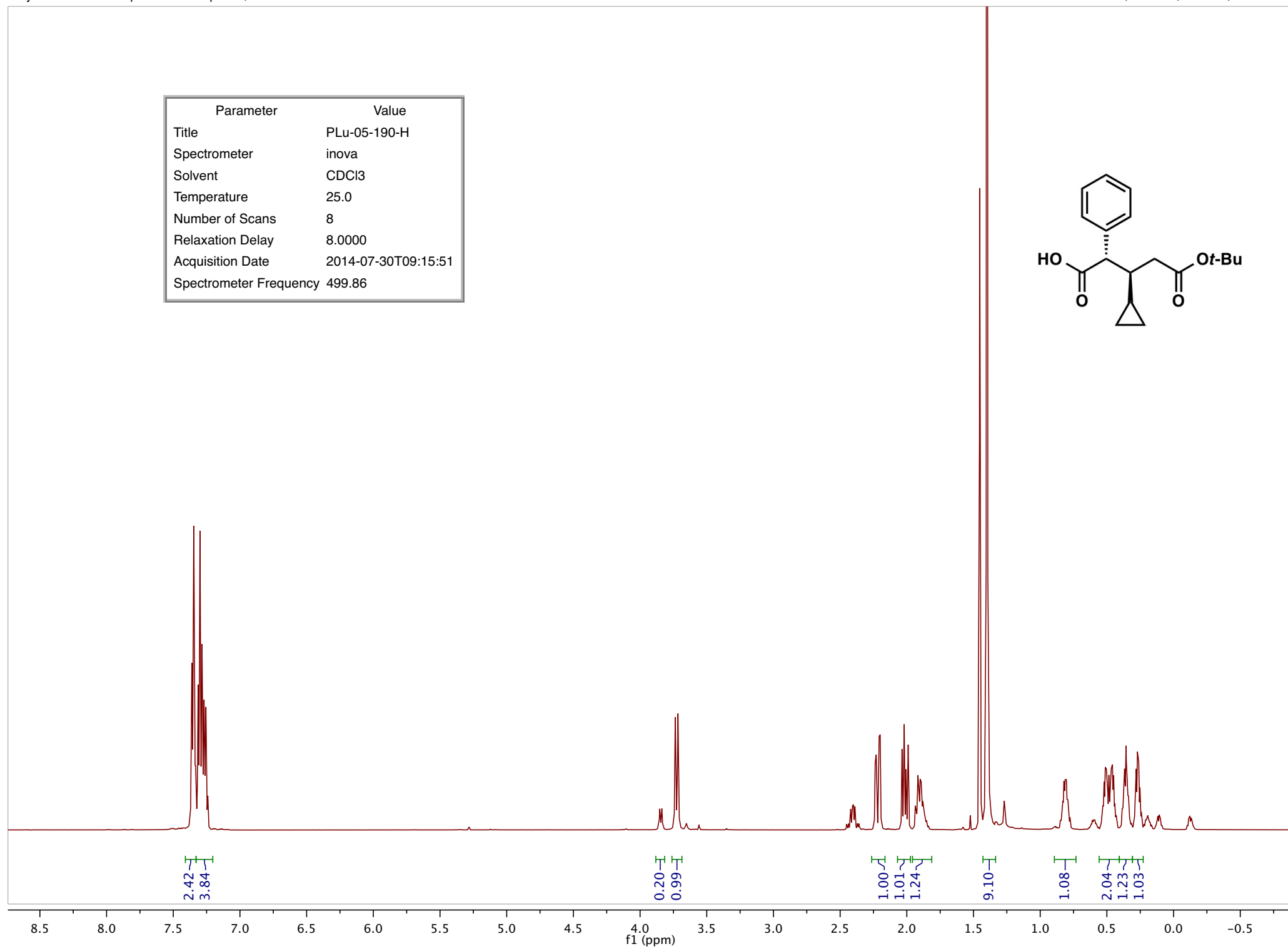
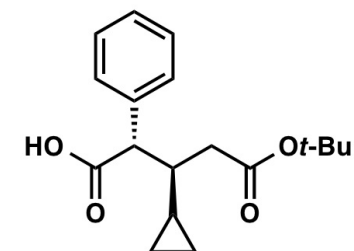


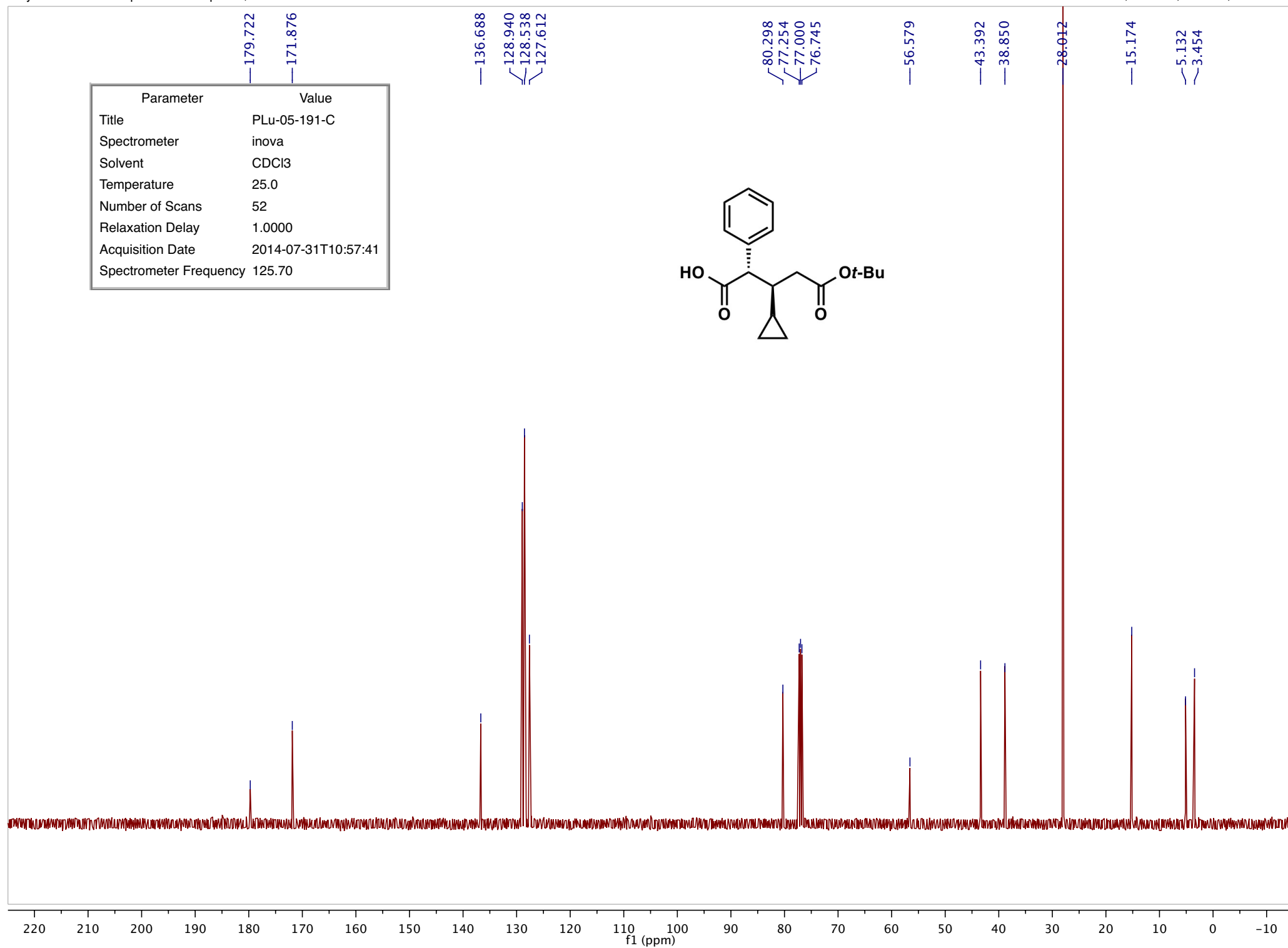




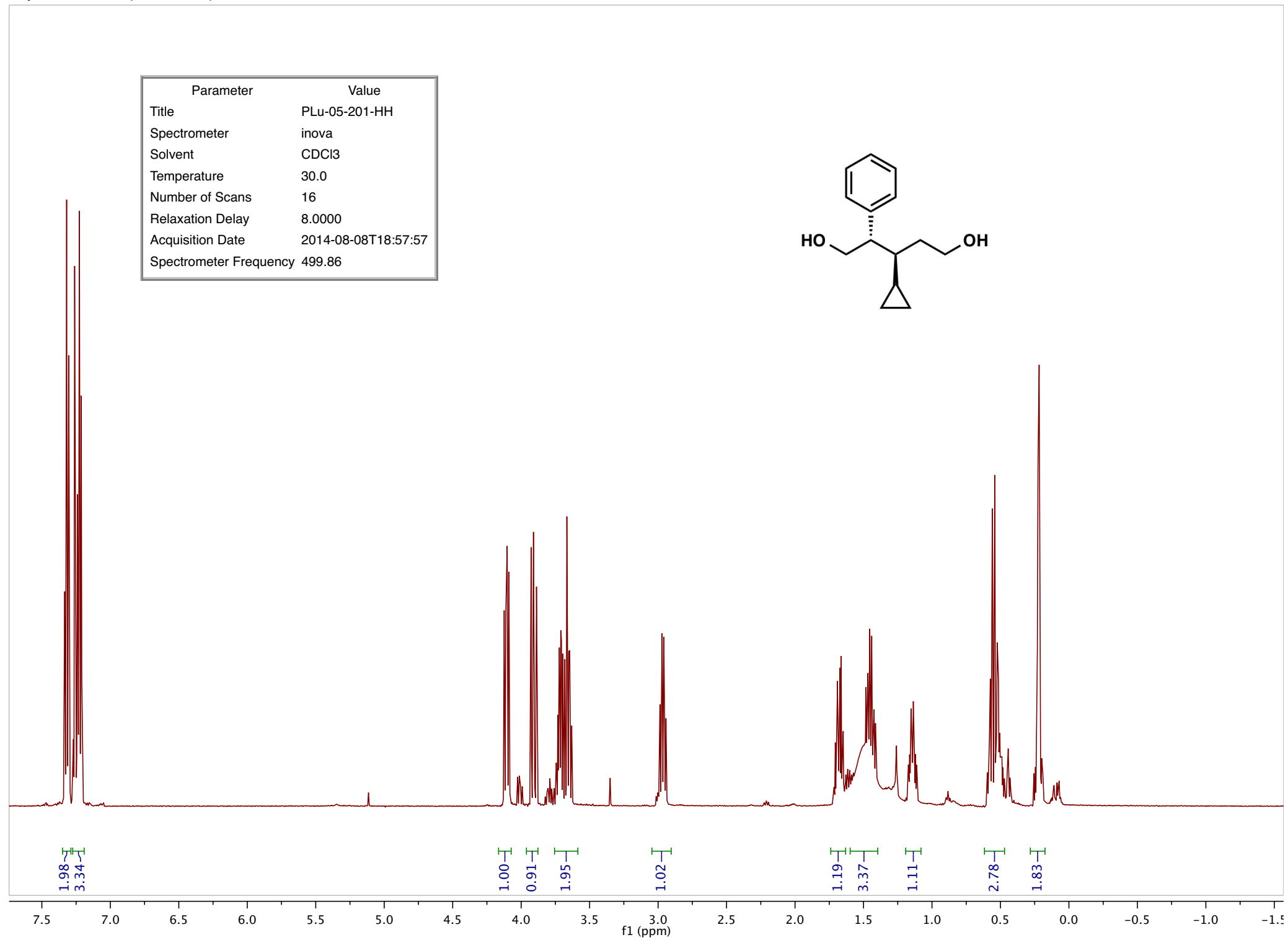
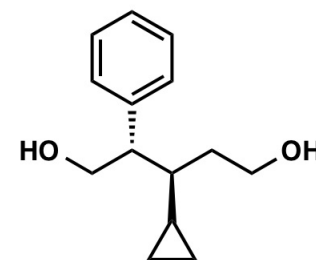


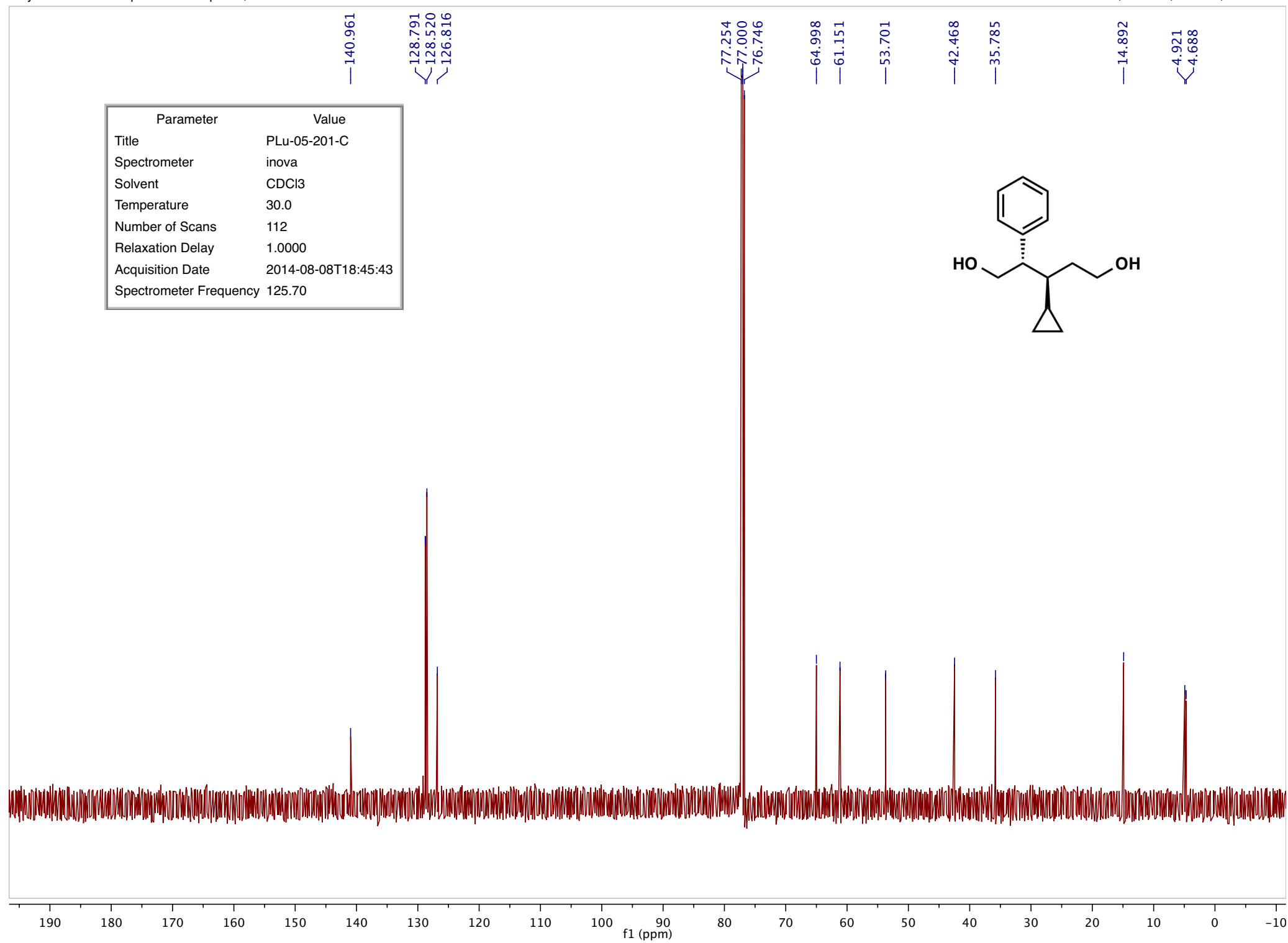
Parameter	Value
Title	PLu-05-190-H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-07-30T09:15:51
Spectrometer Frequency	499.86



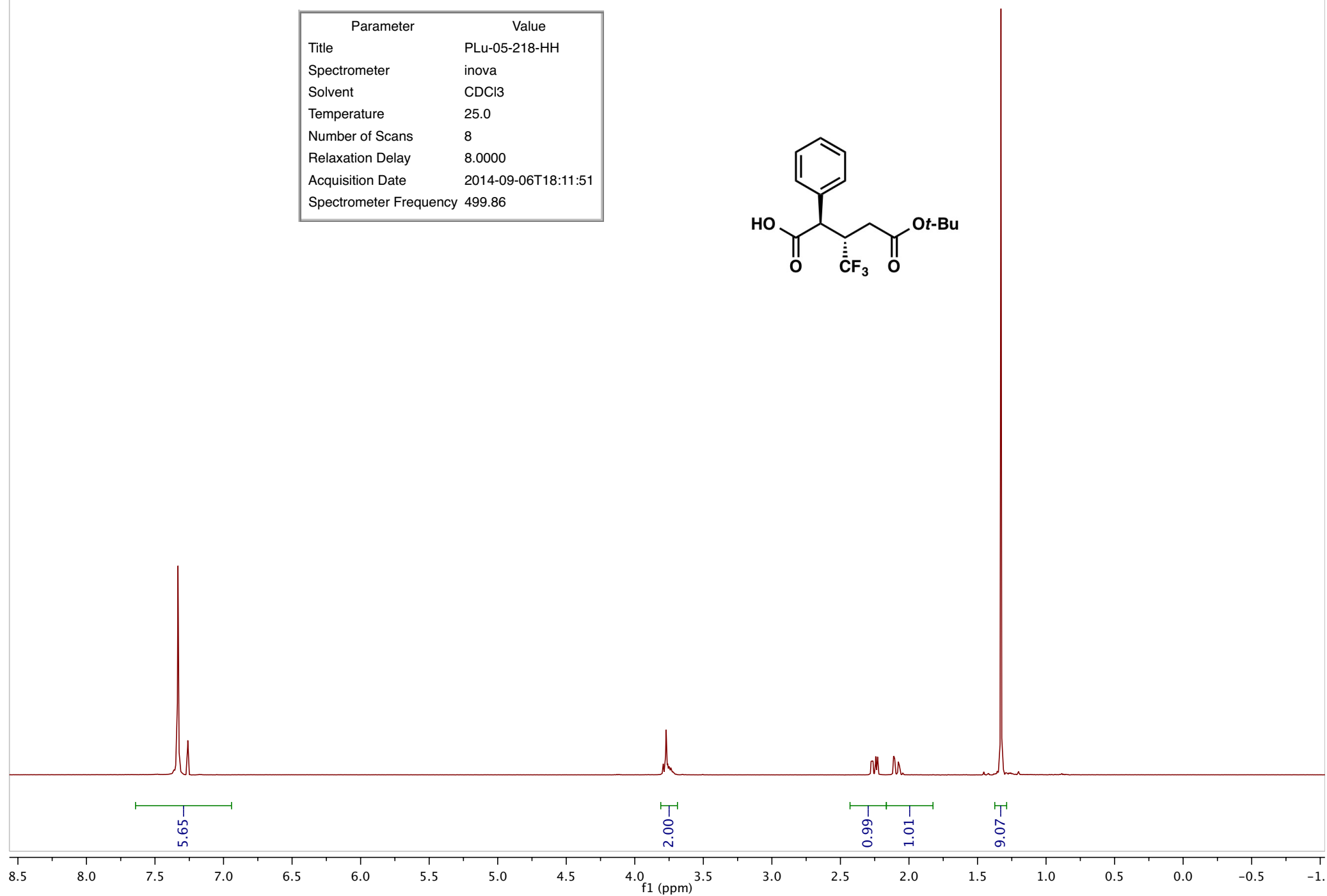
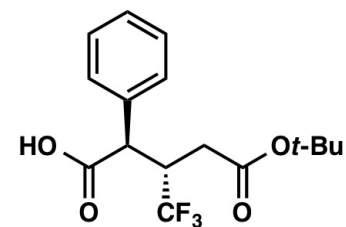


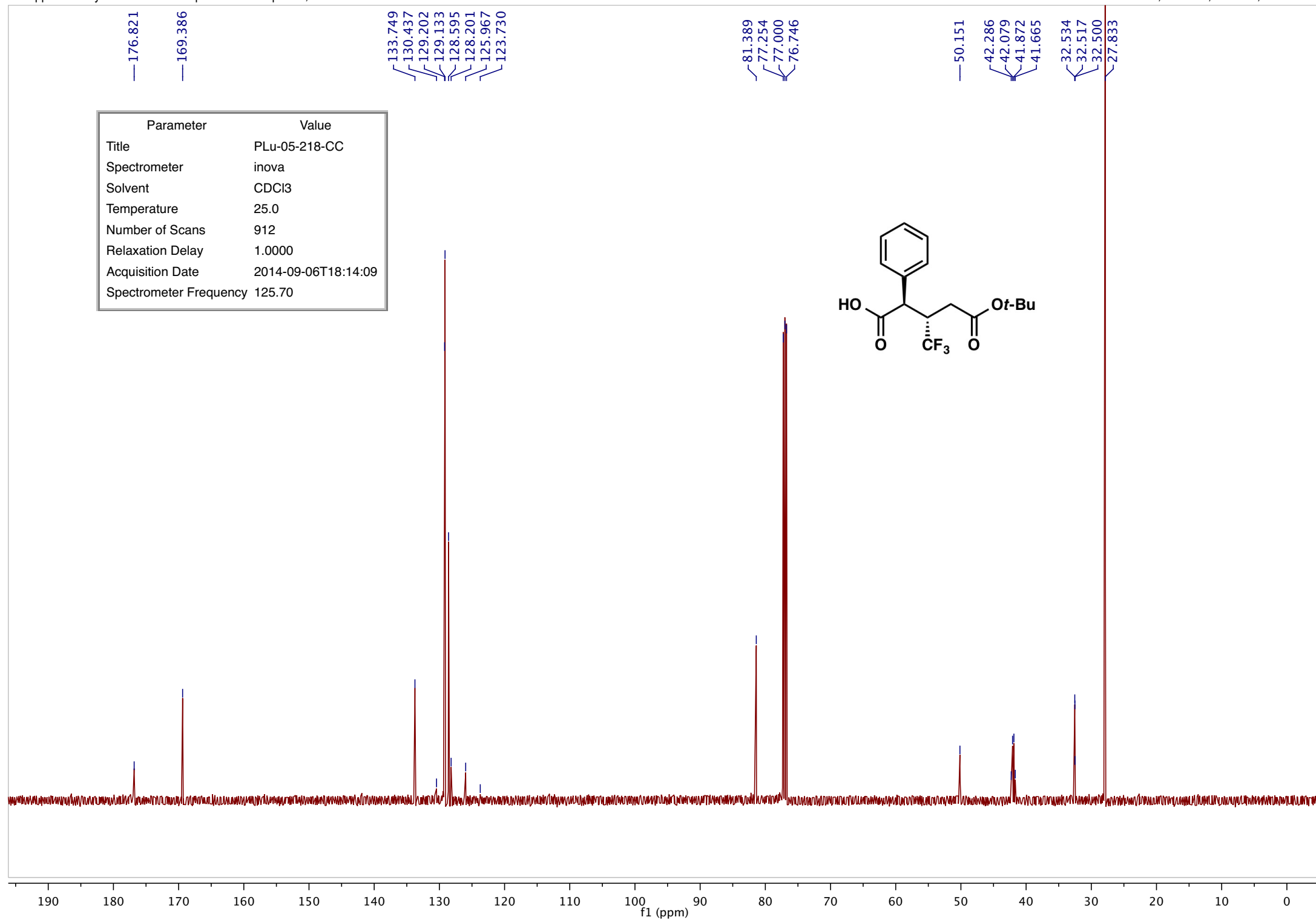
Parameter	Value
Title	PLu-05-201-HH
Spectrometer	inova
Solvent	CDCl3
Temperature	30.0
Number of Scans	16
Relaxation Delay	8.0000
Acquisition Date	2014-08-08T18:57:57
Spectrometer Frequency	499.86

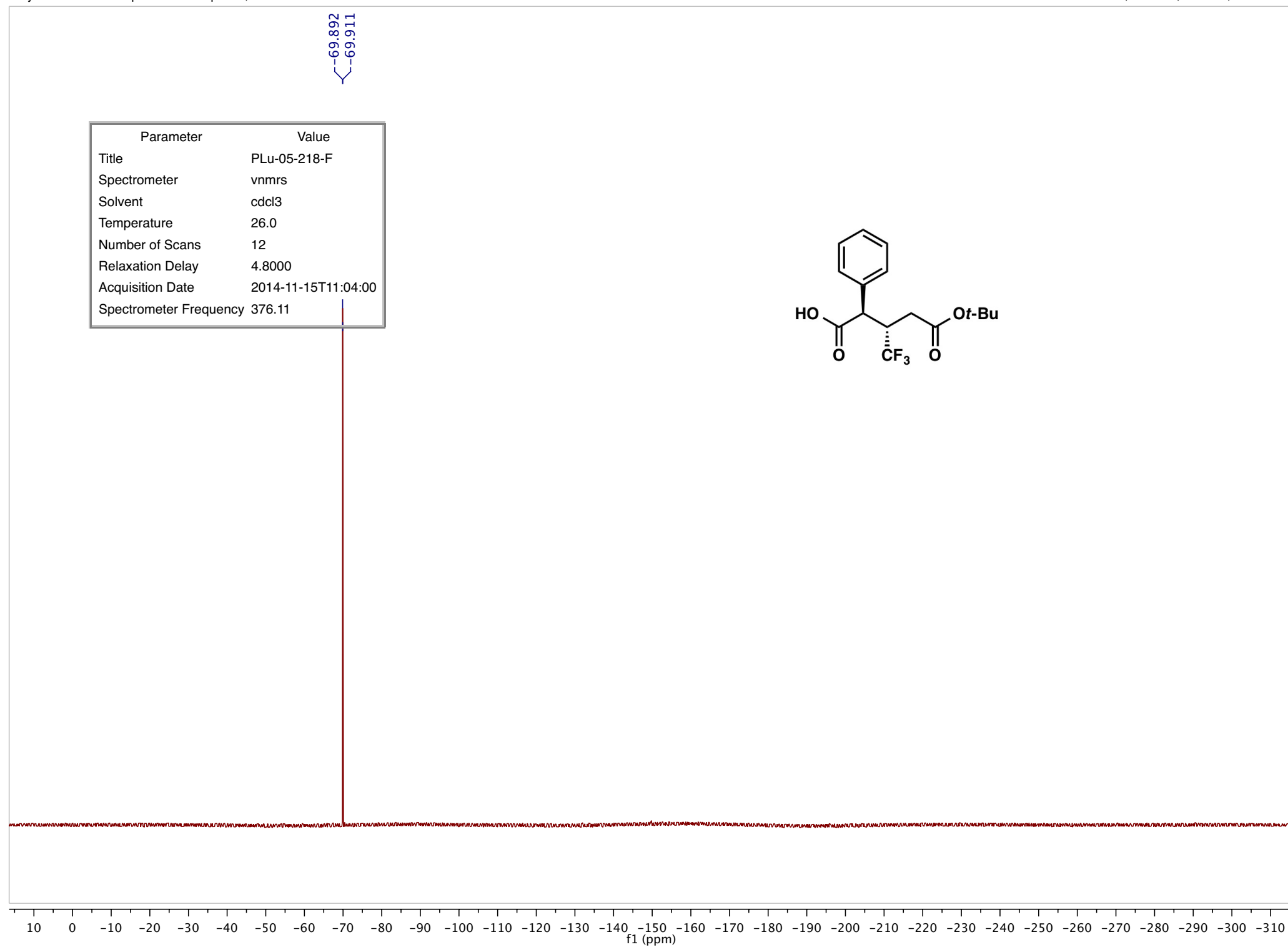


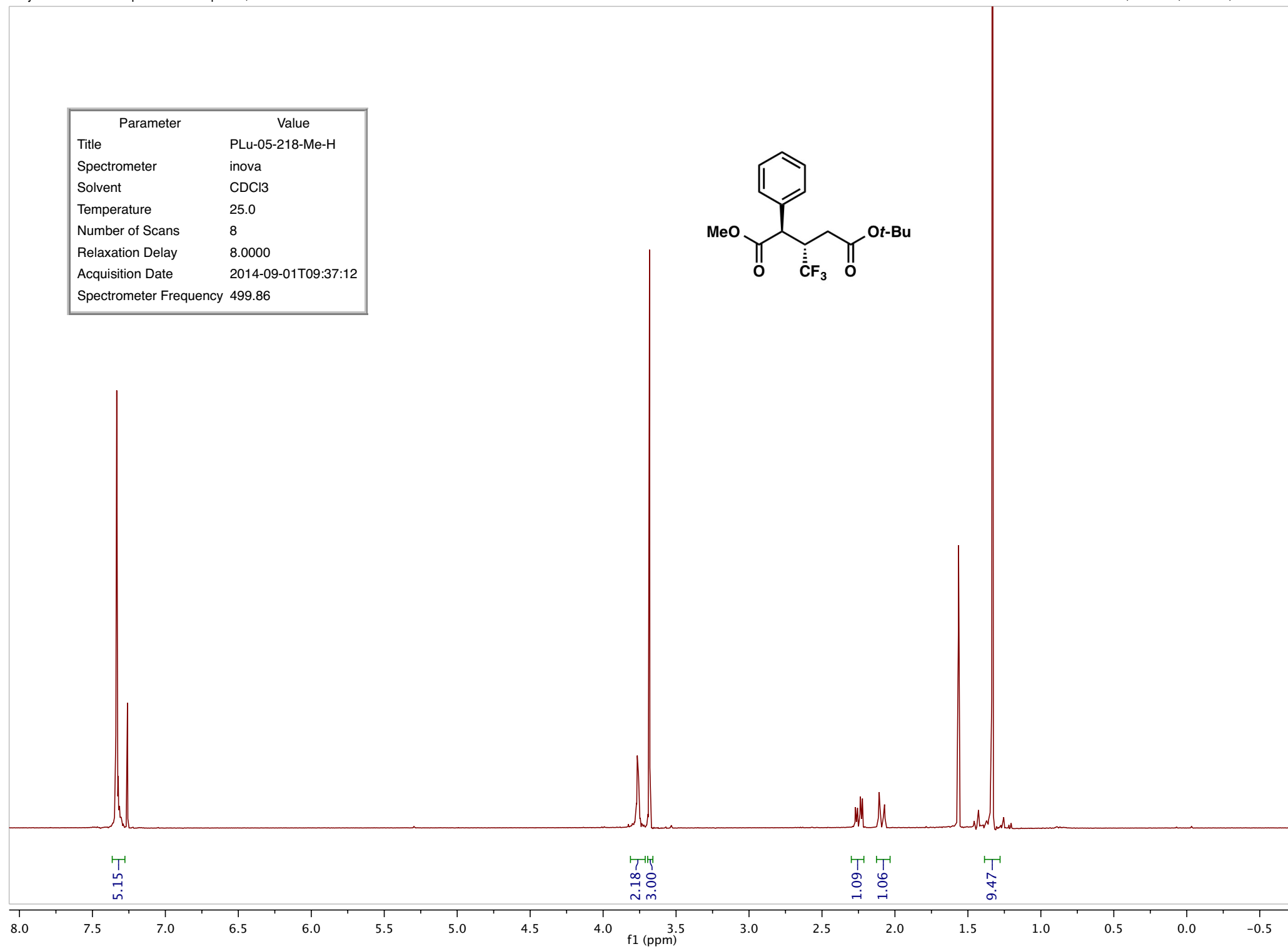


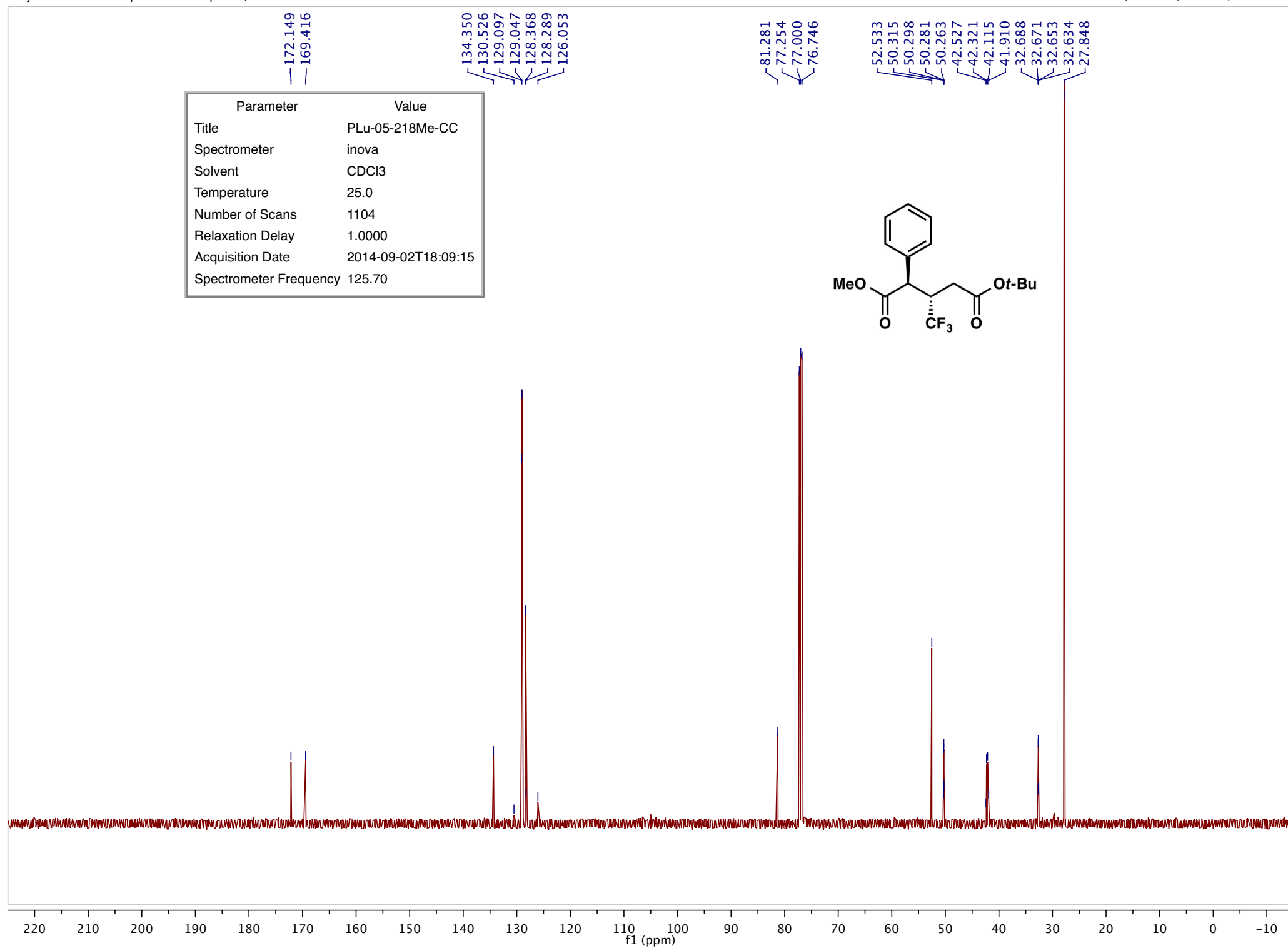
Parameter	Value
Title	PLu-05-218-HH
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-09-06T18:11:51
Spectrometer Frequency	499.86





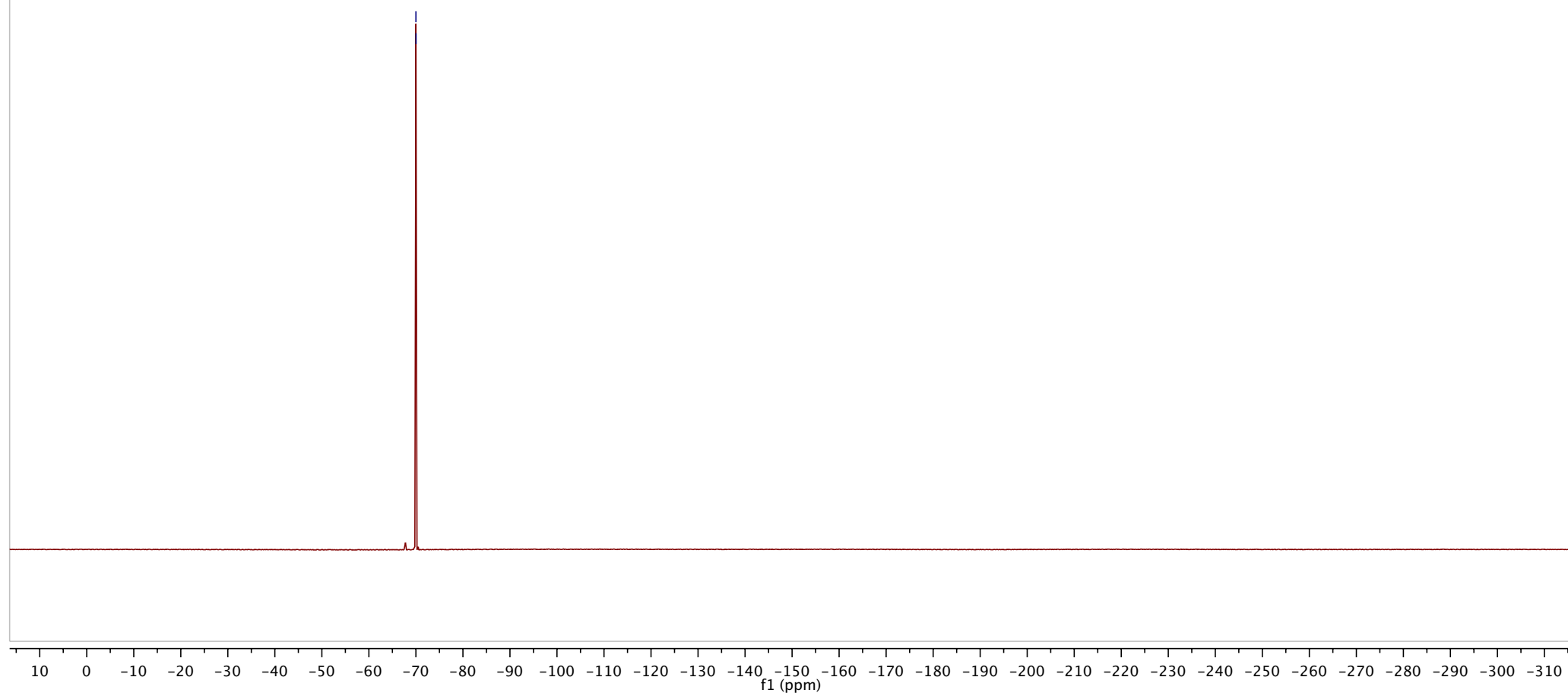
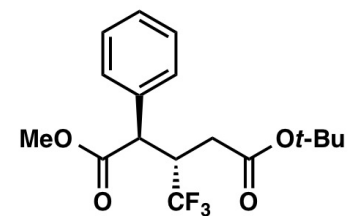


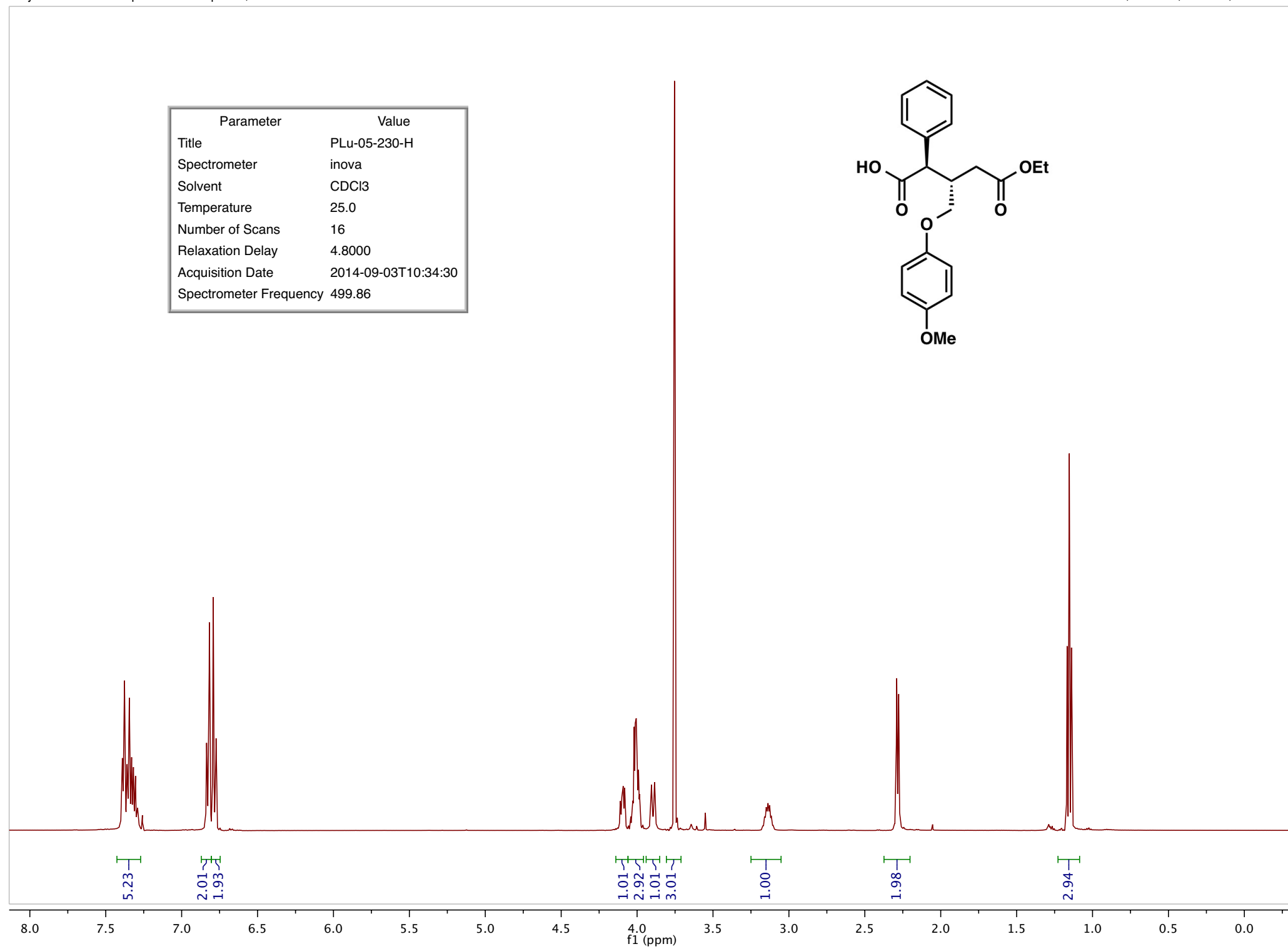


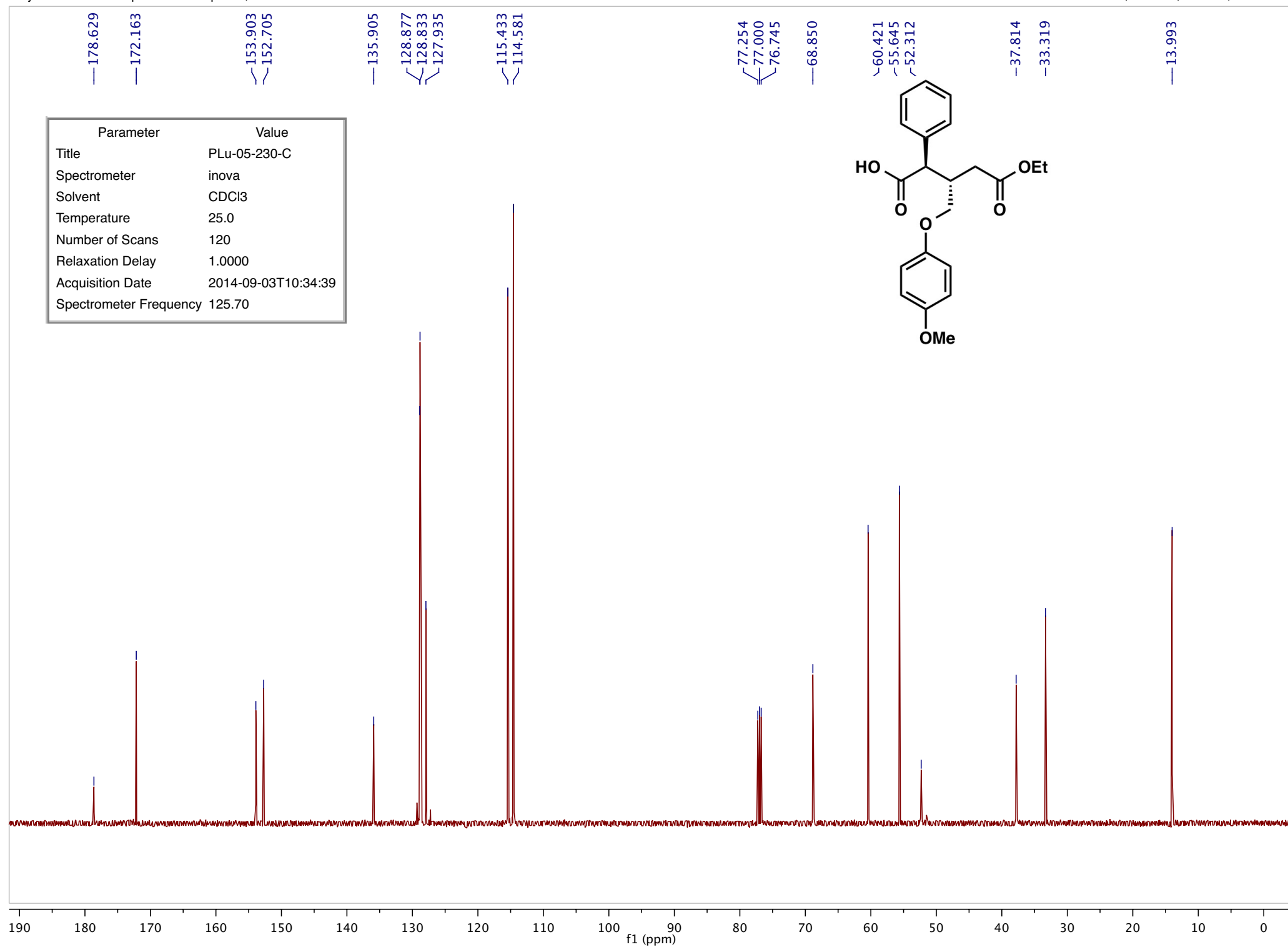


Parameter	Value
Title	PLu-05-218-Me-F
Spectrometer	vnmrs
Solvent	cdcl3
Temperature	20.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-09-01T10:06:08
Spectrometer Frequency	376.11

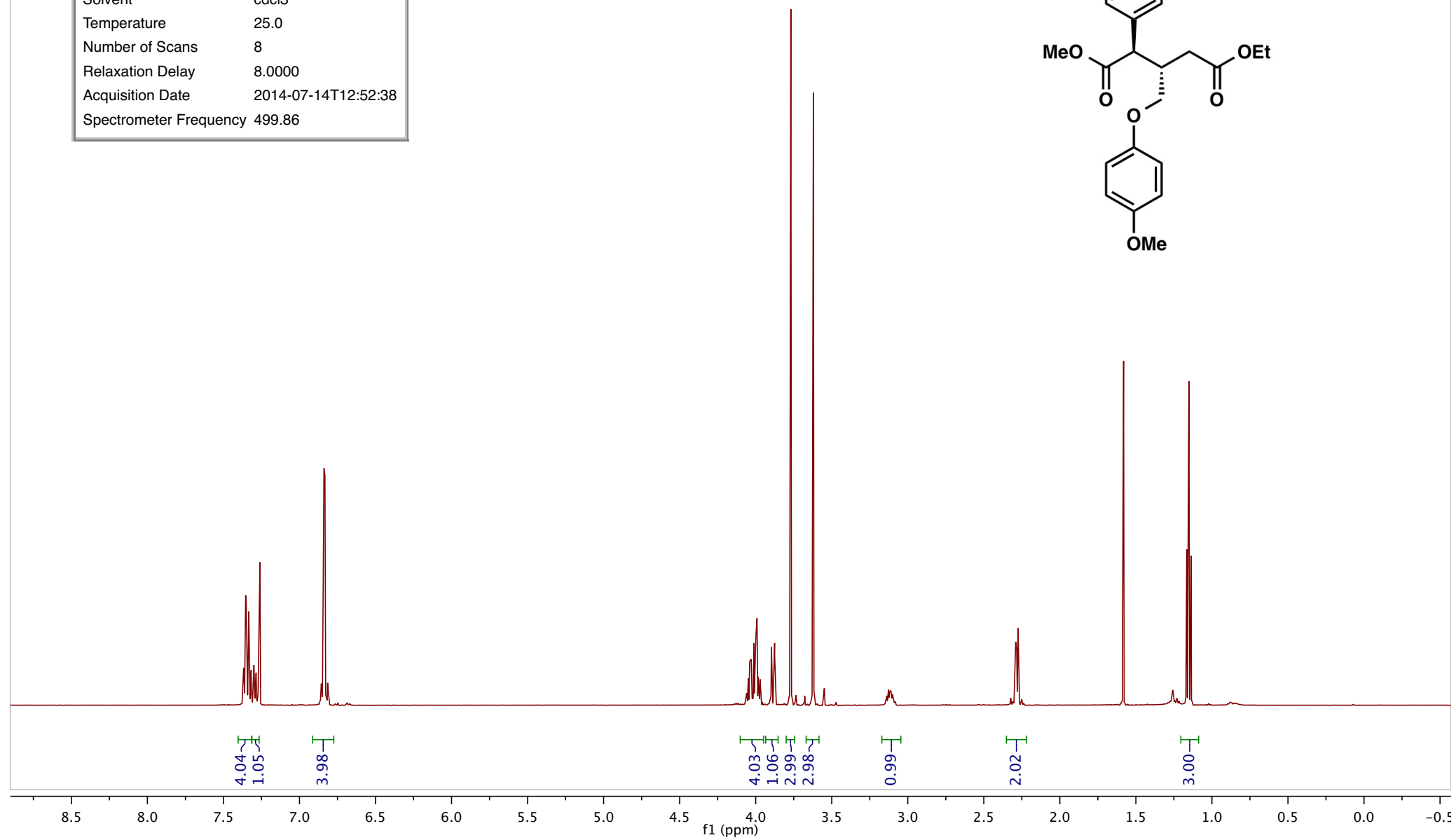
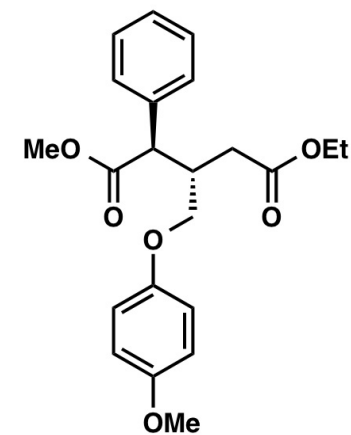
70.004
70.023

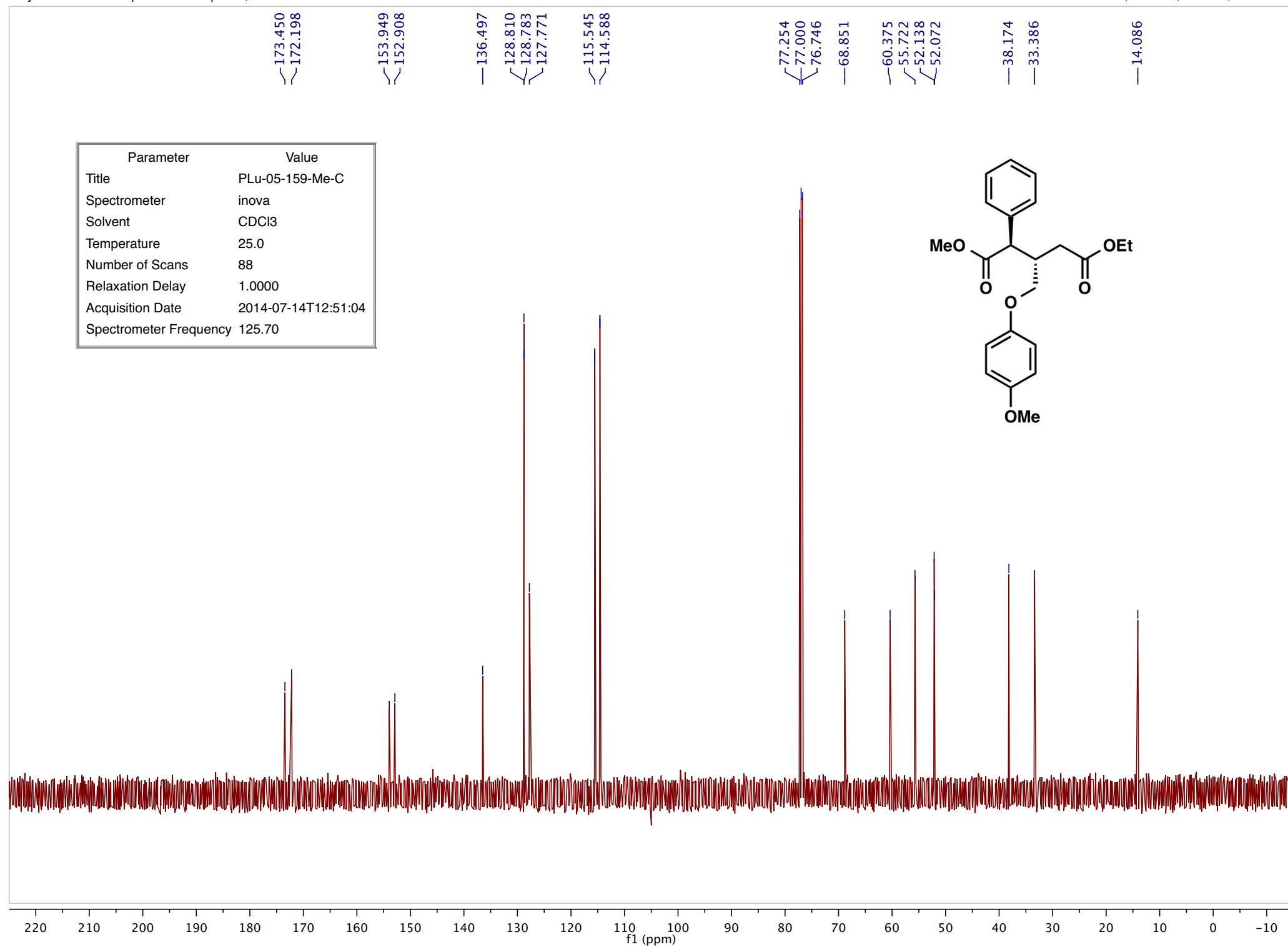


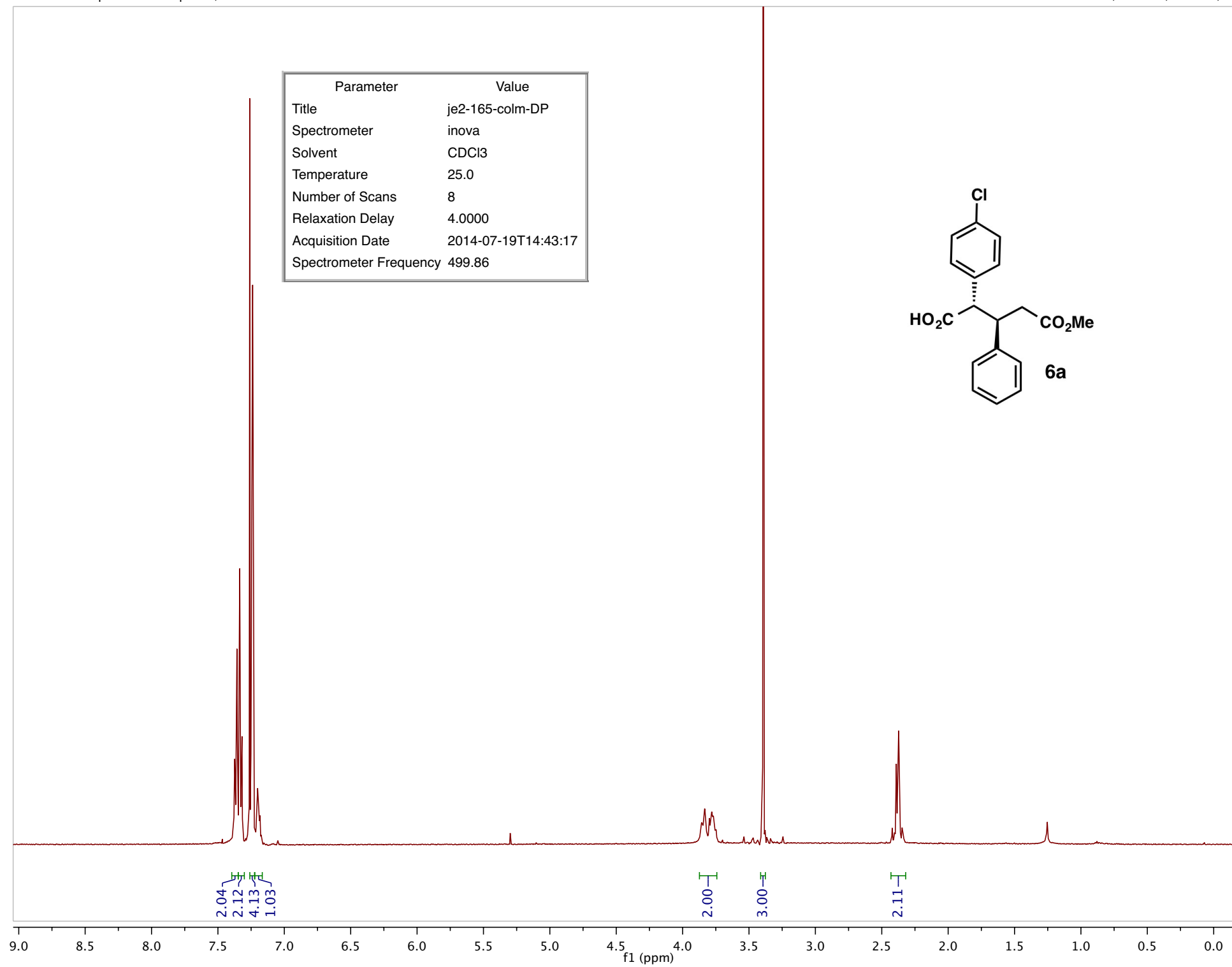


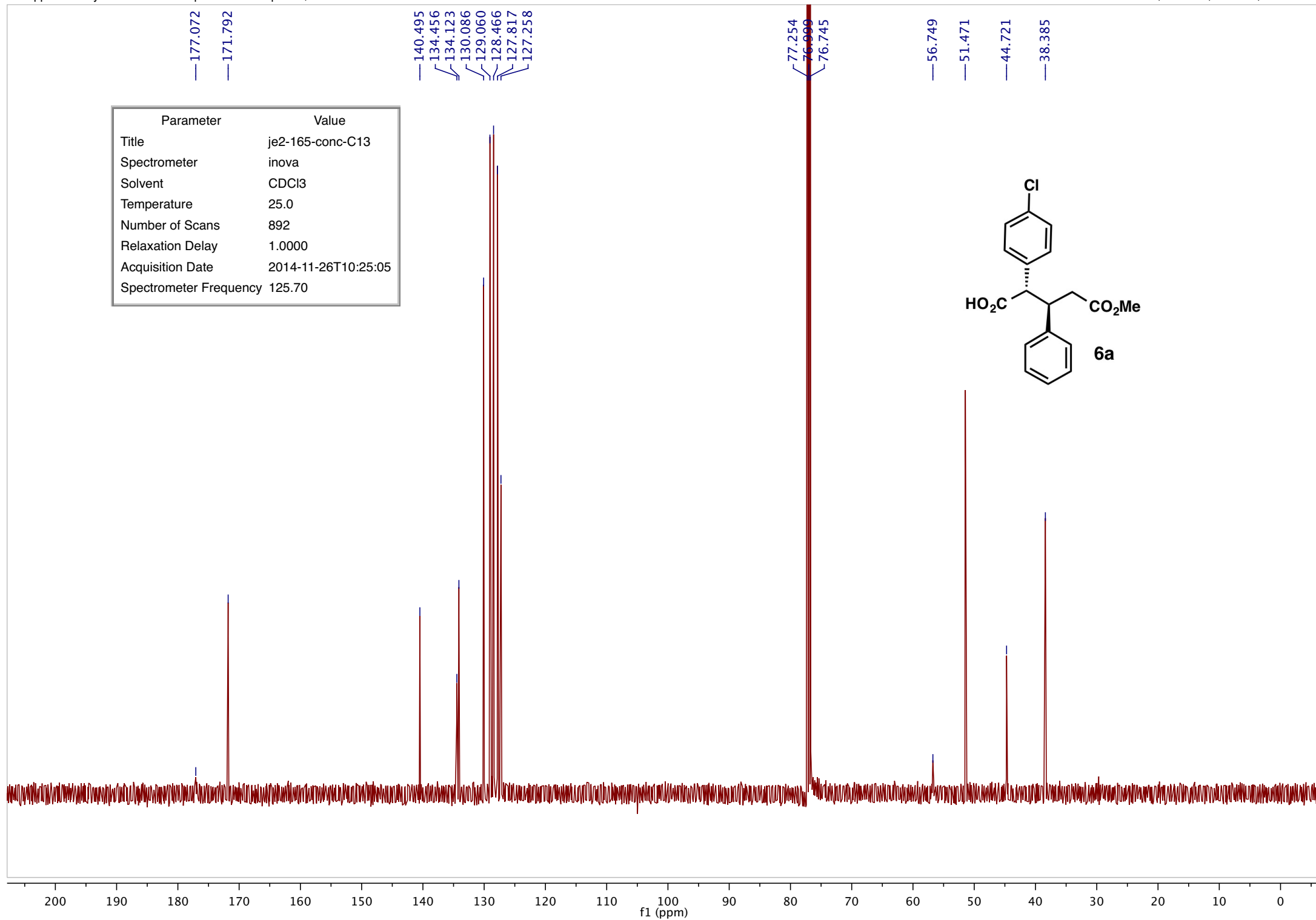


Parameter	Value
Title	PLu-05-159-MeH
Spectrometer	inova
Solvent	cdcl3
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-07-14T12:52:38
Spectrometer Frequency	499.86

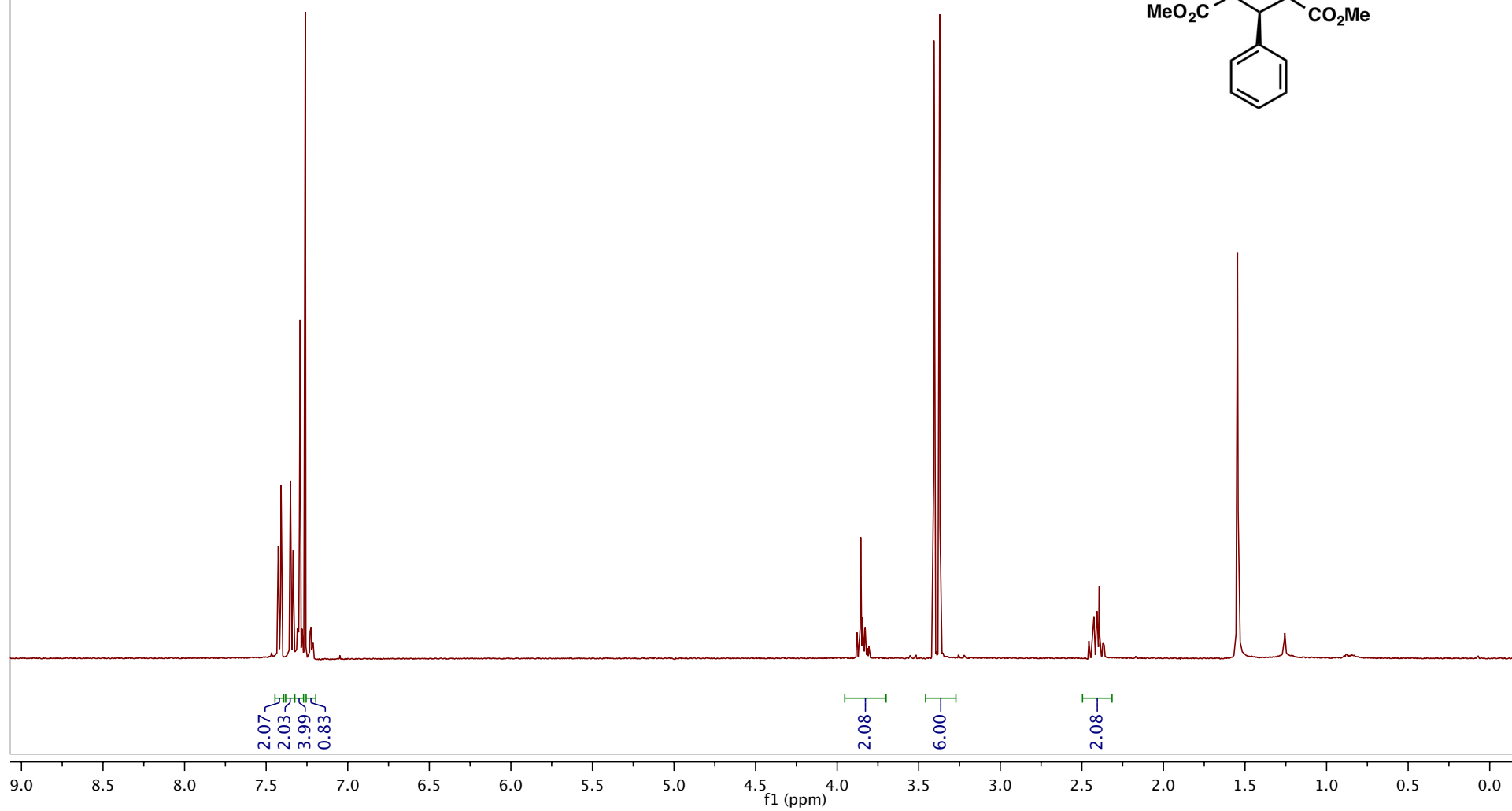
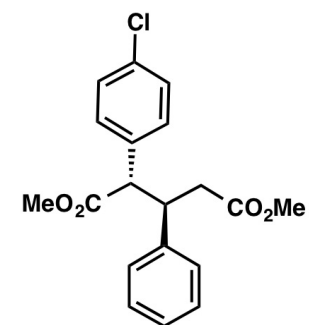


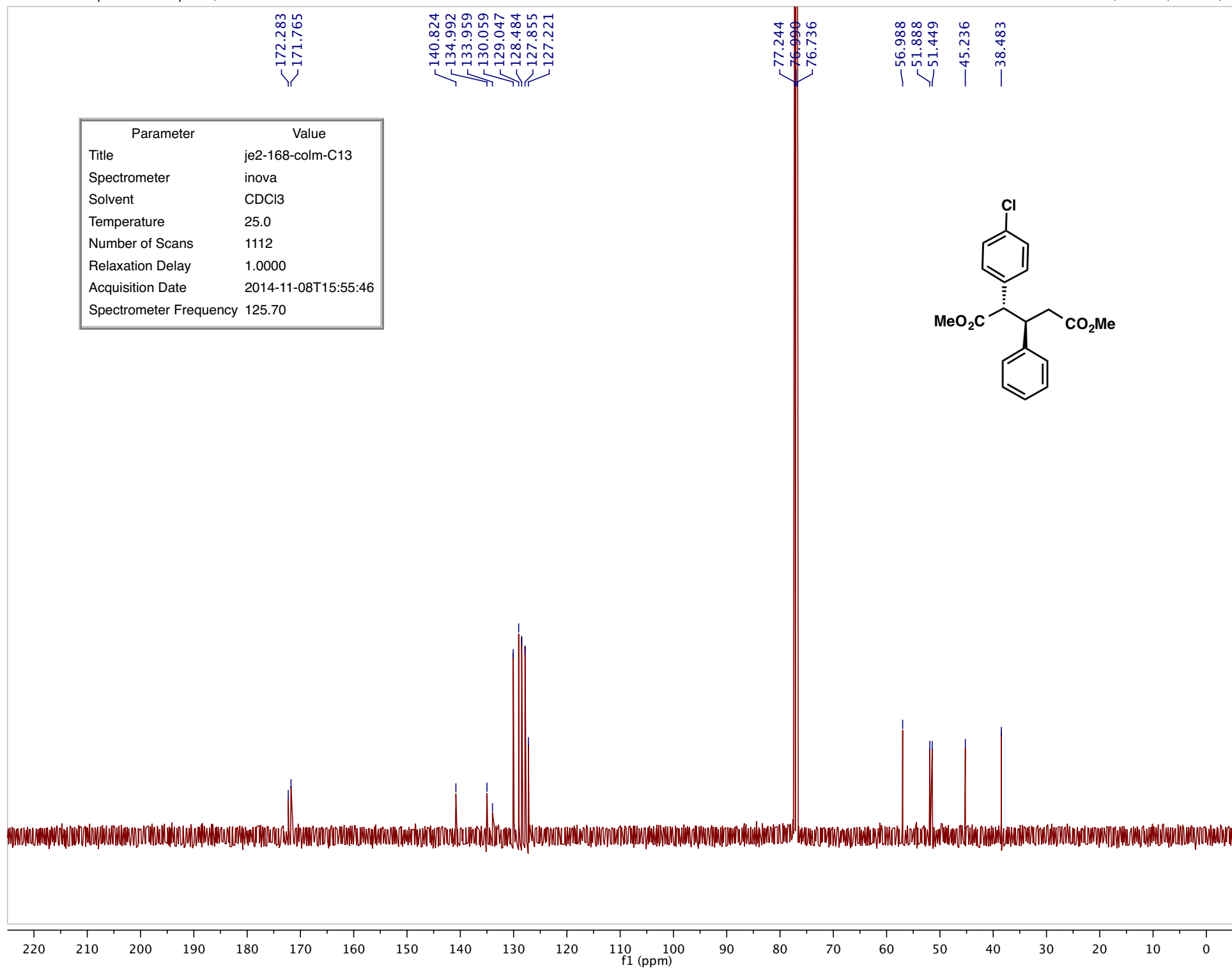


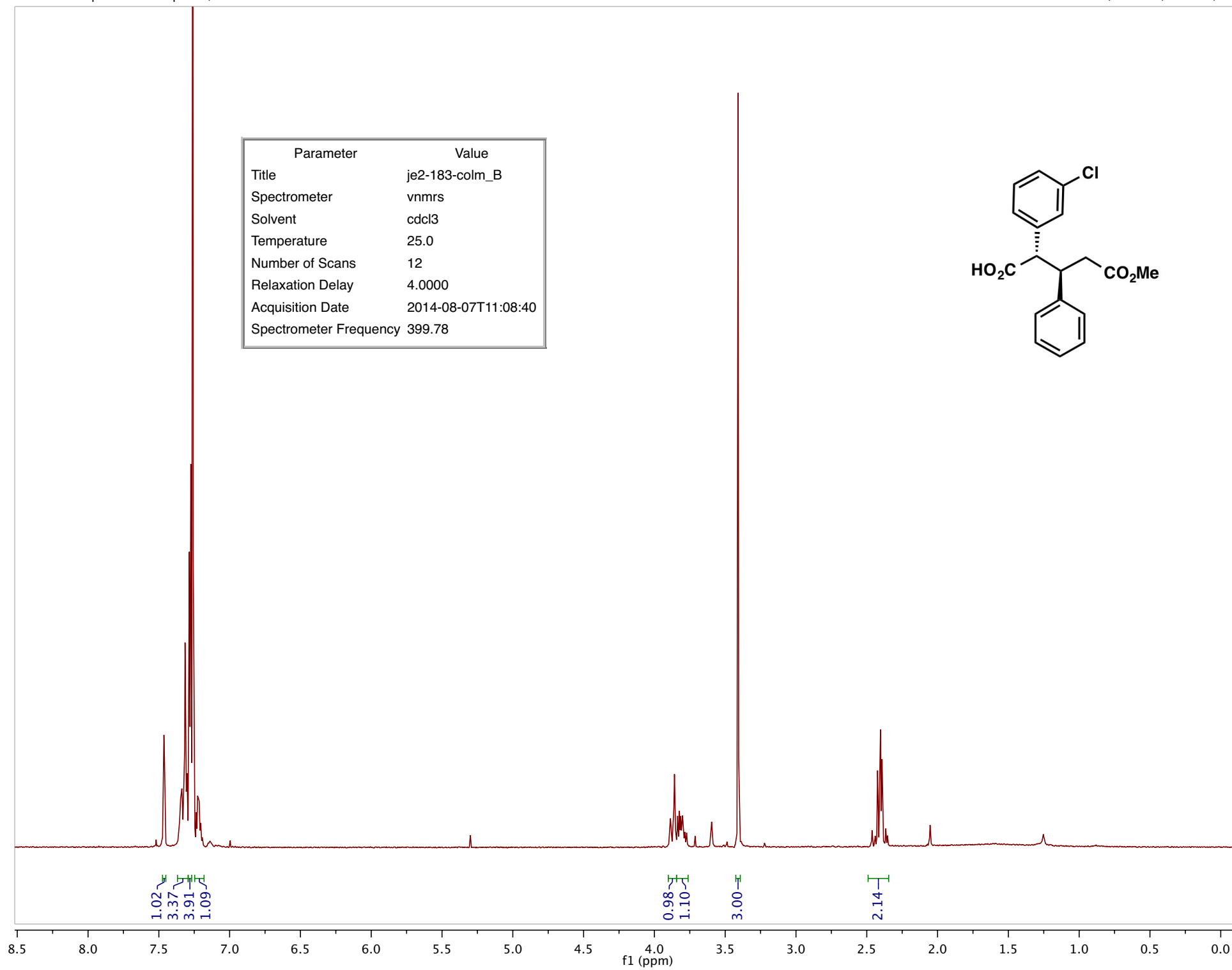


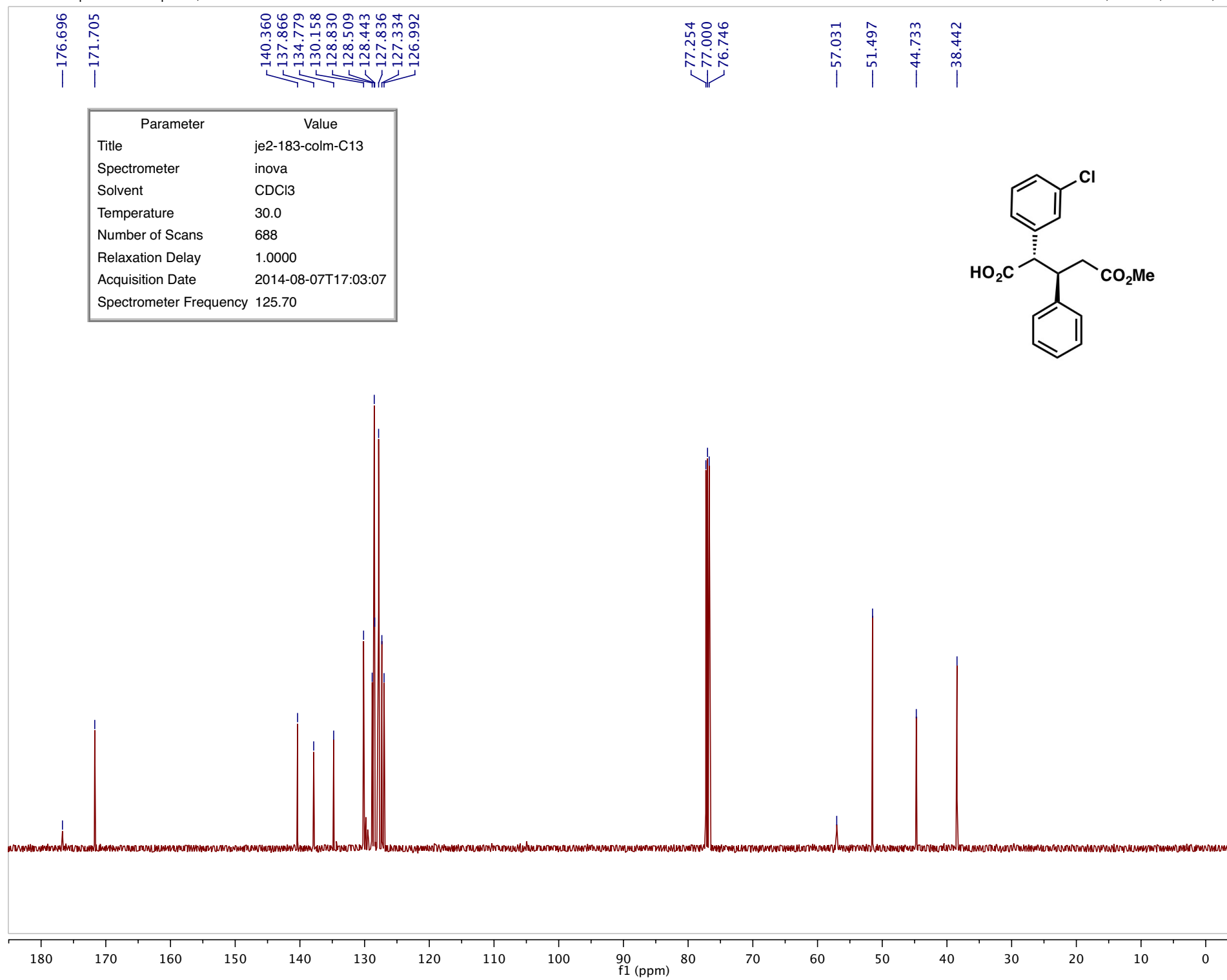


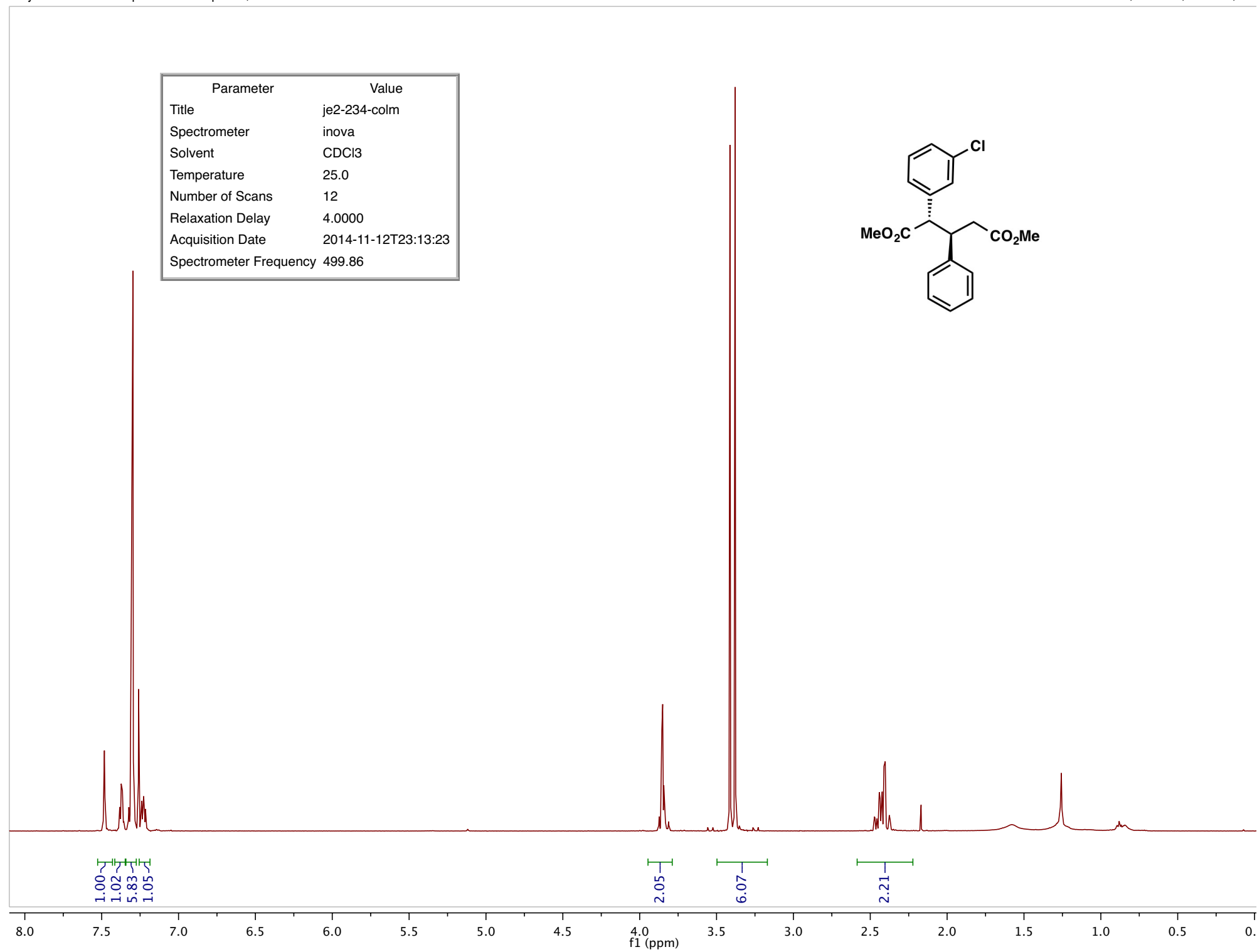
Parameter	Value
Title	je2-168-colm-chk
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	12
Relaxation Delay	4.0000
Acquisition Date	2014-11-08T15:53:23
Spectrometer Frequency	499.86

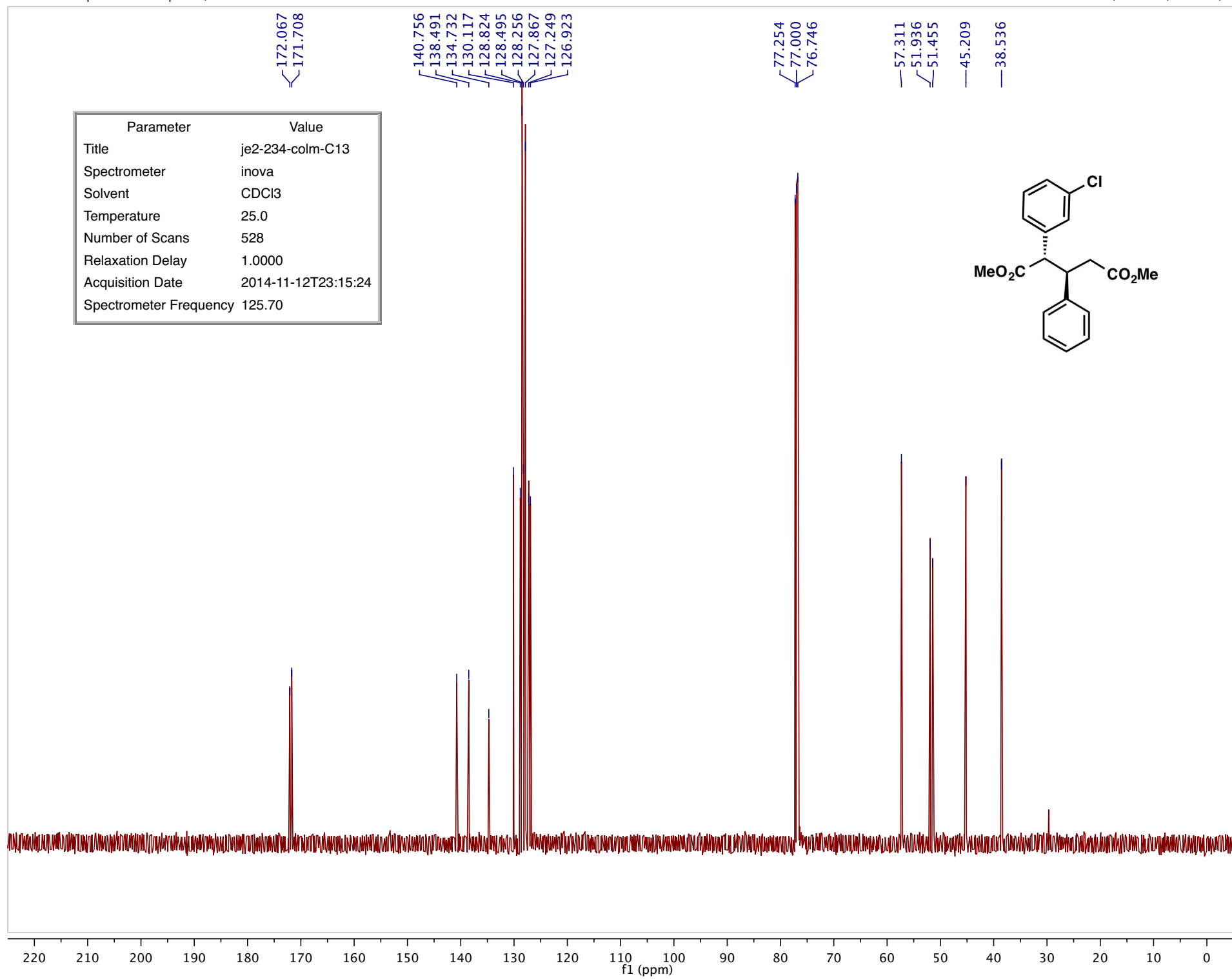


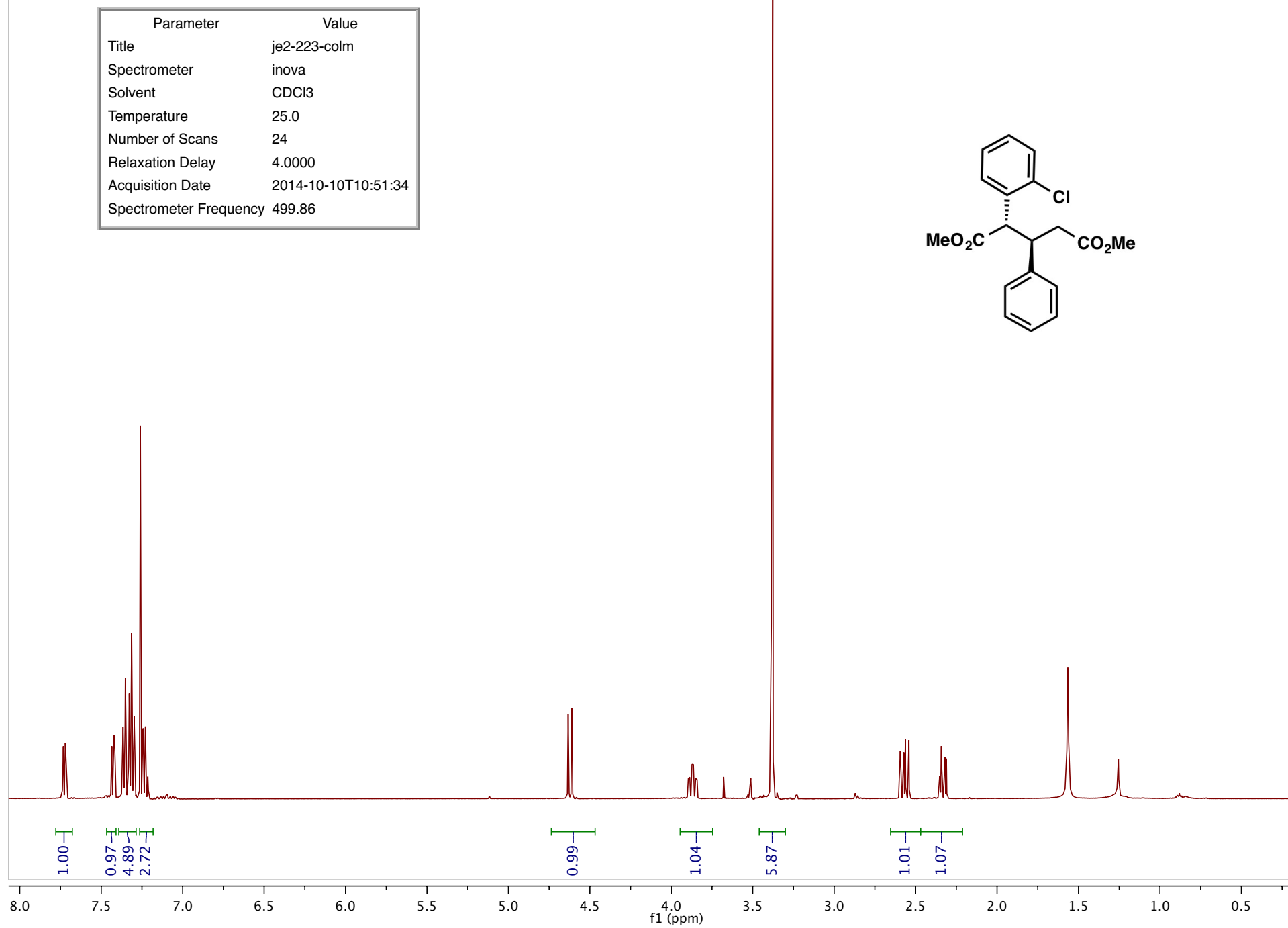


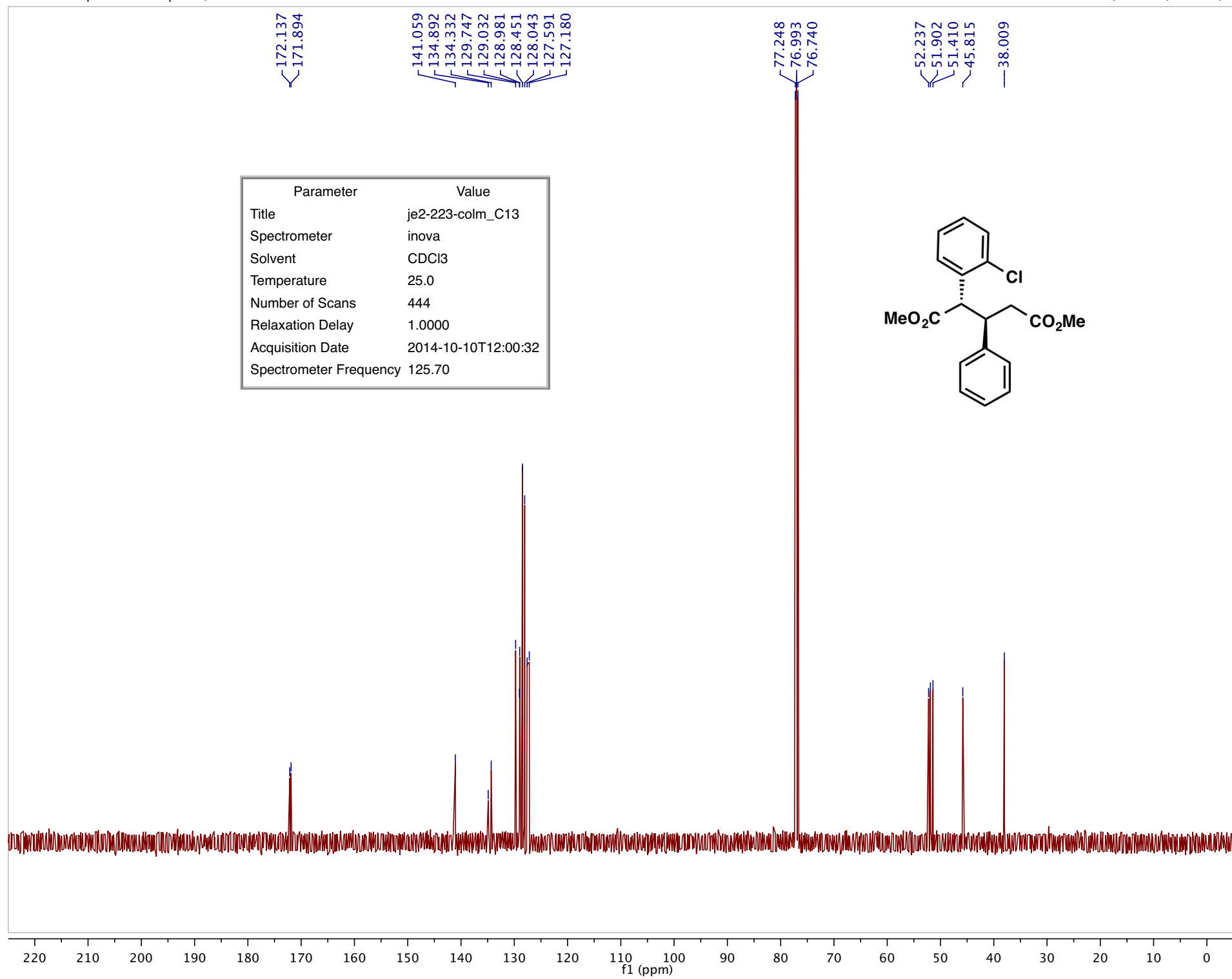


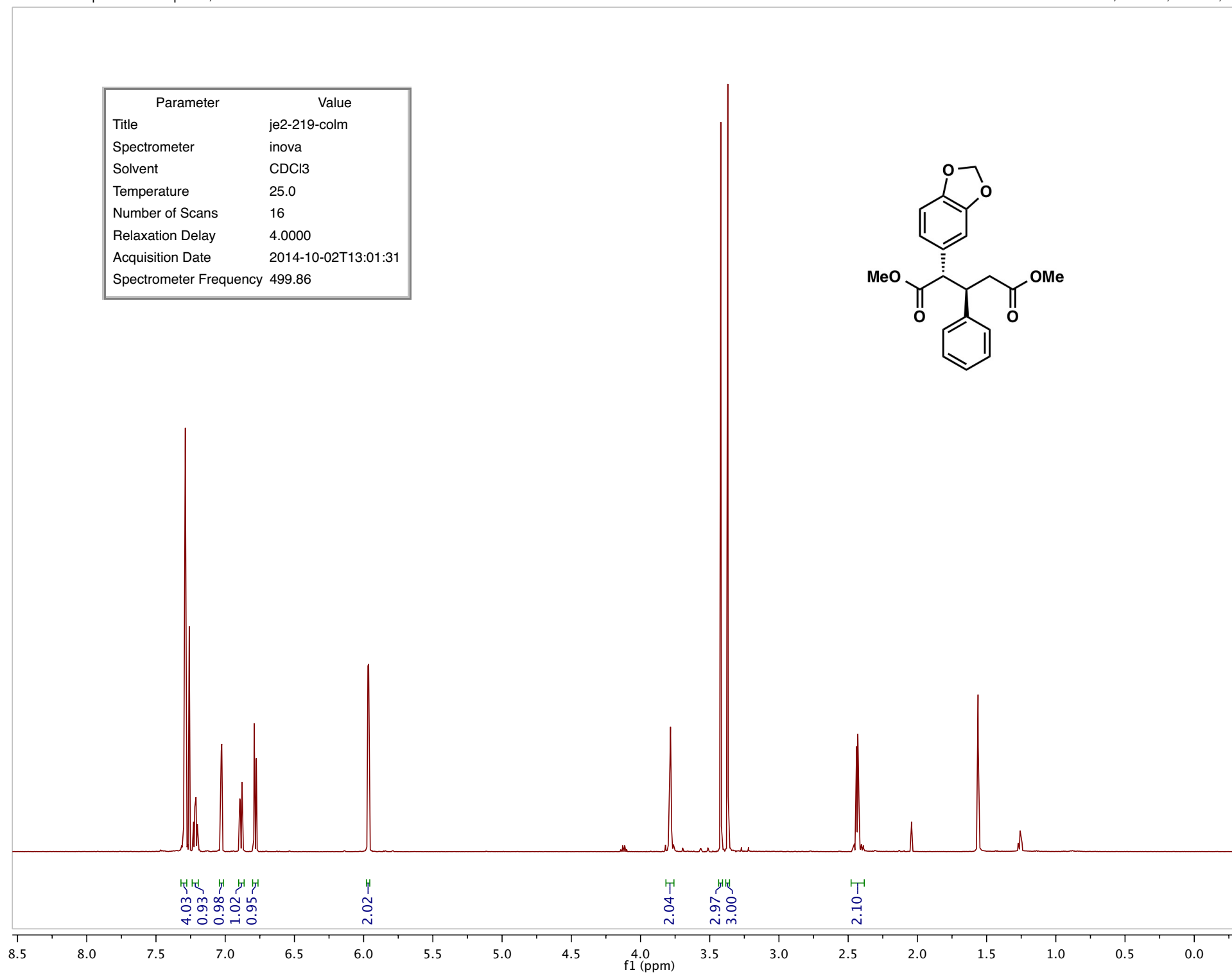


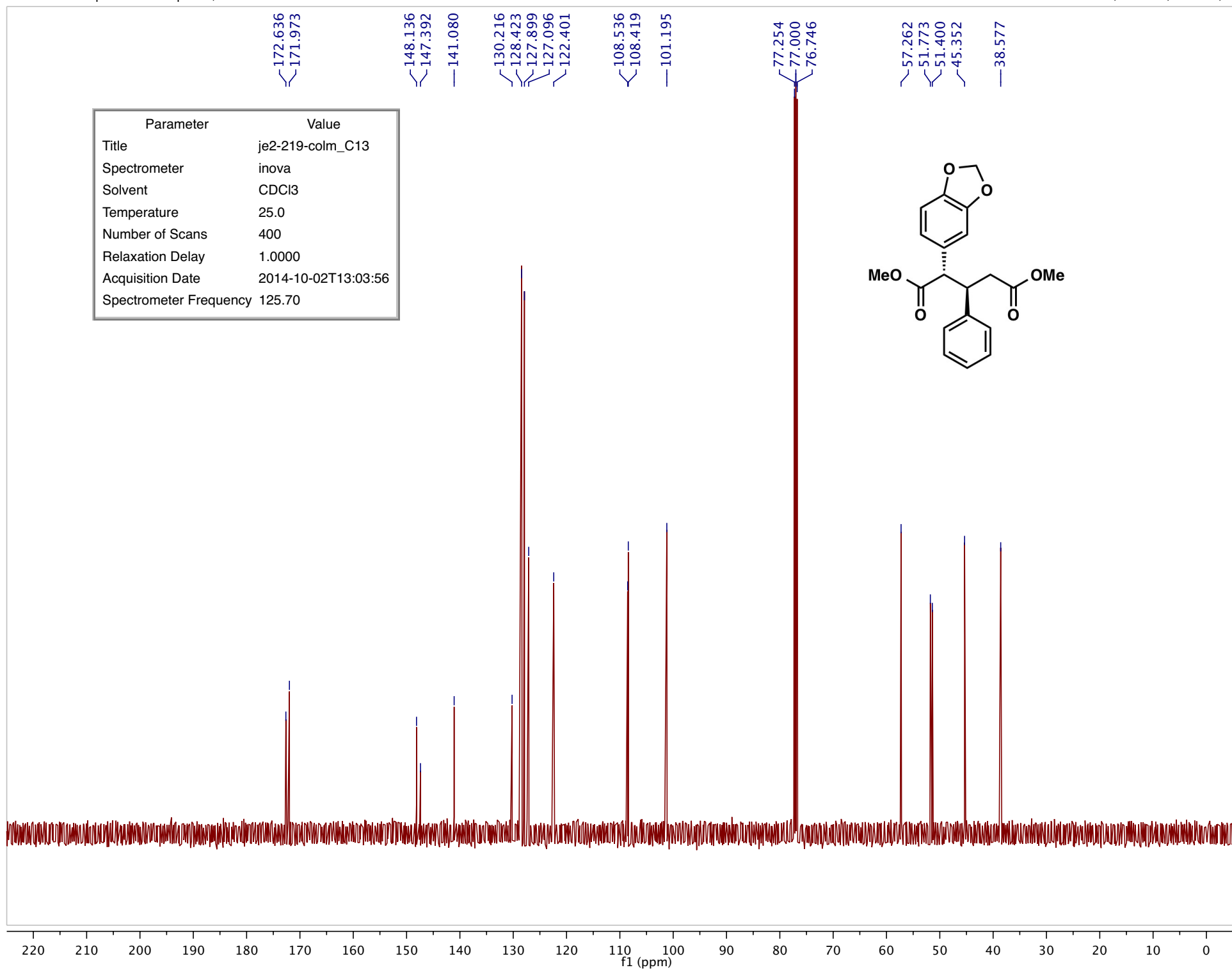


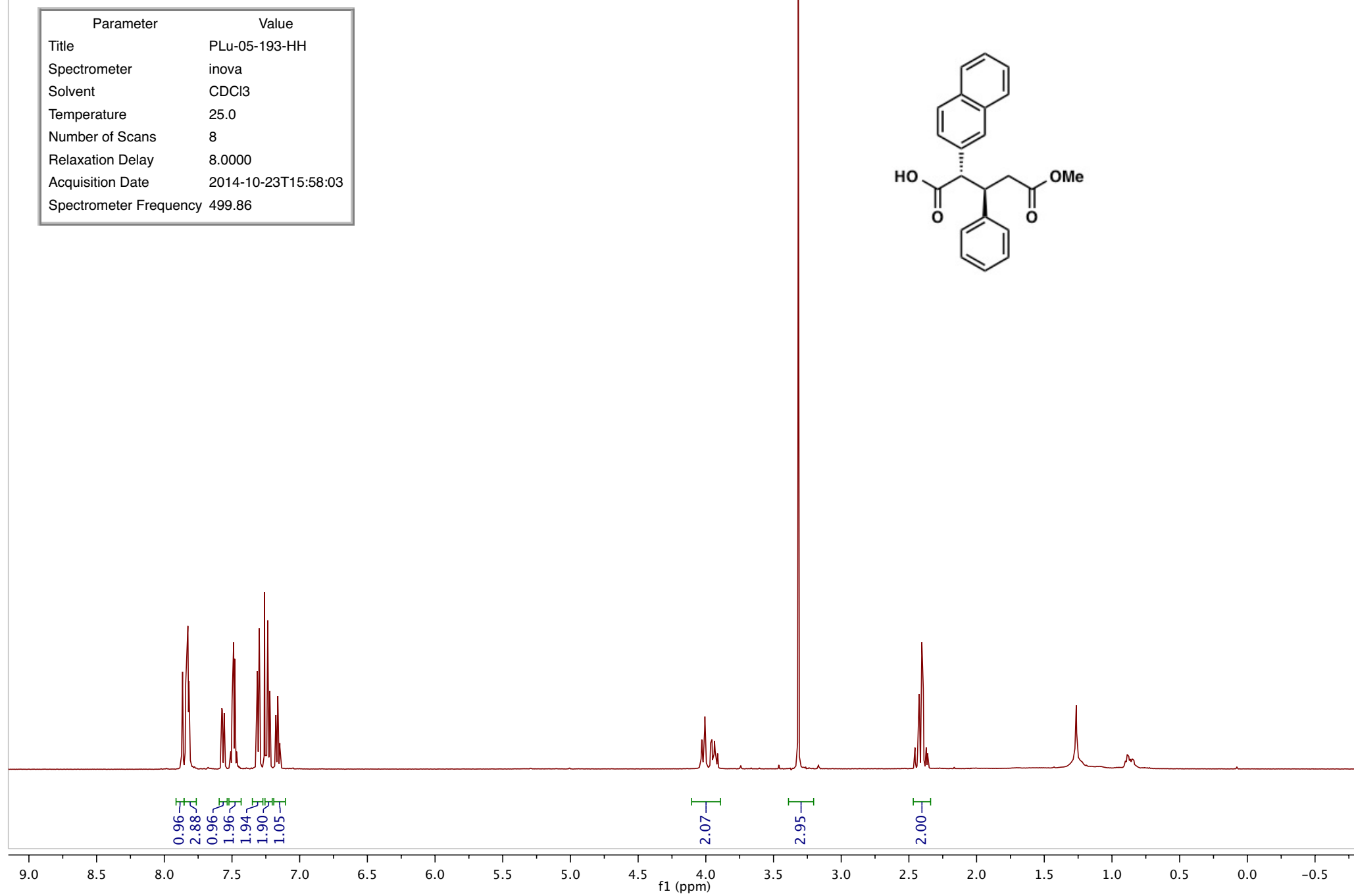


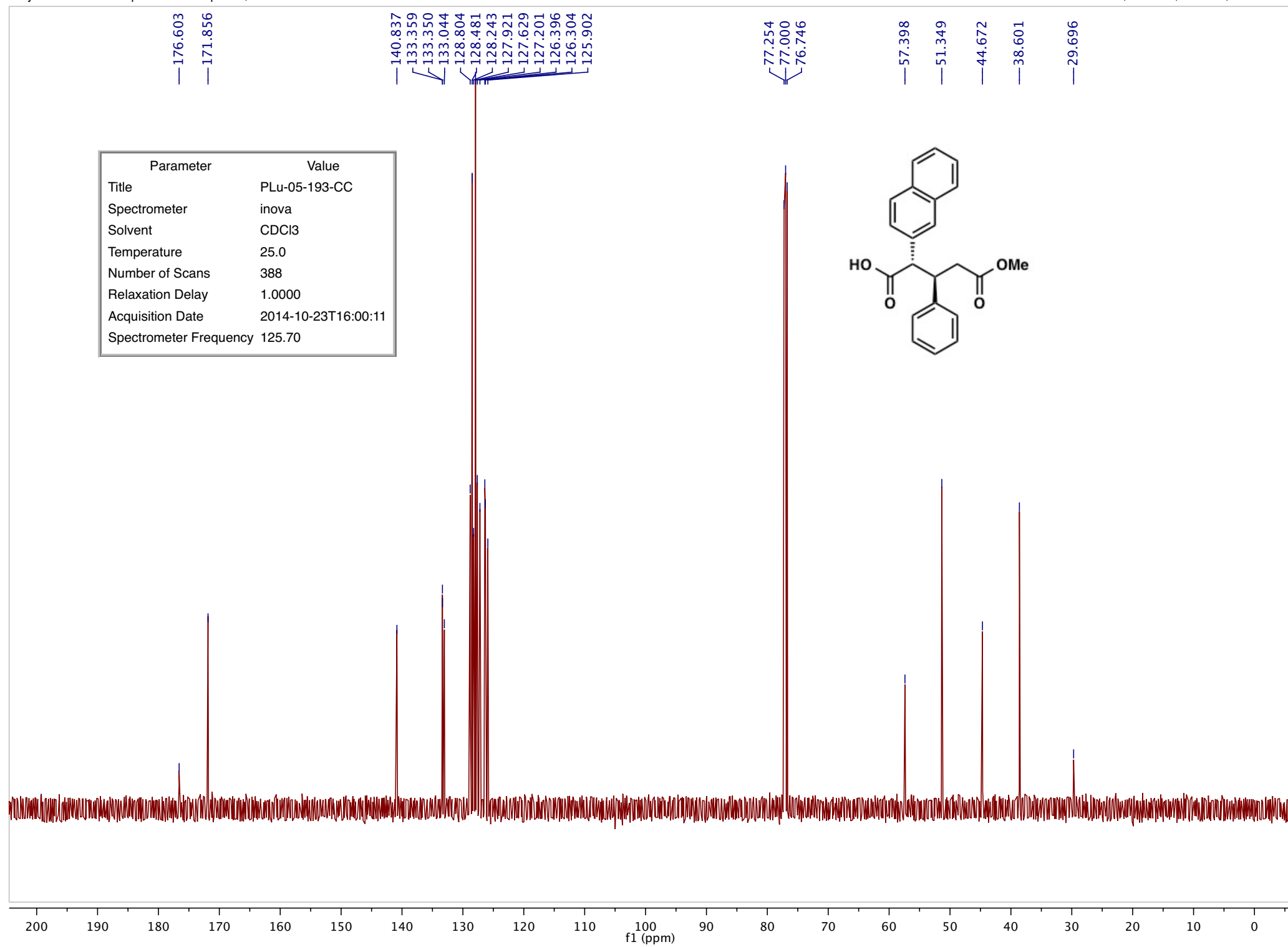


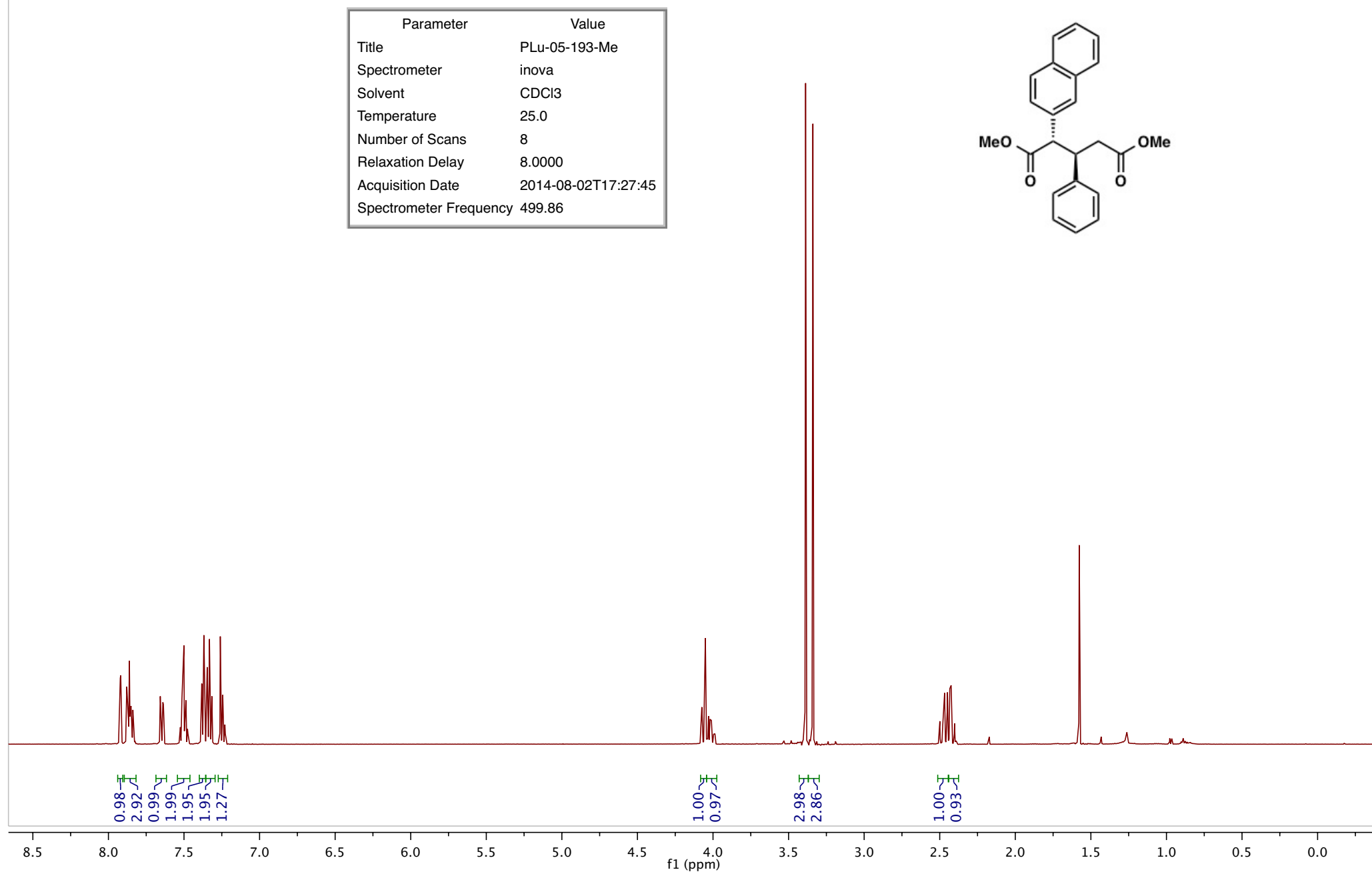


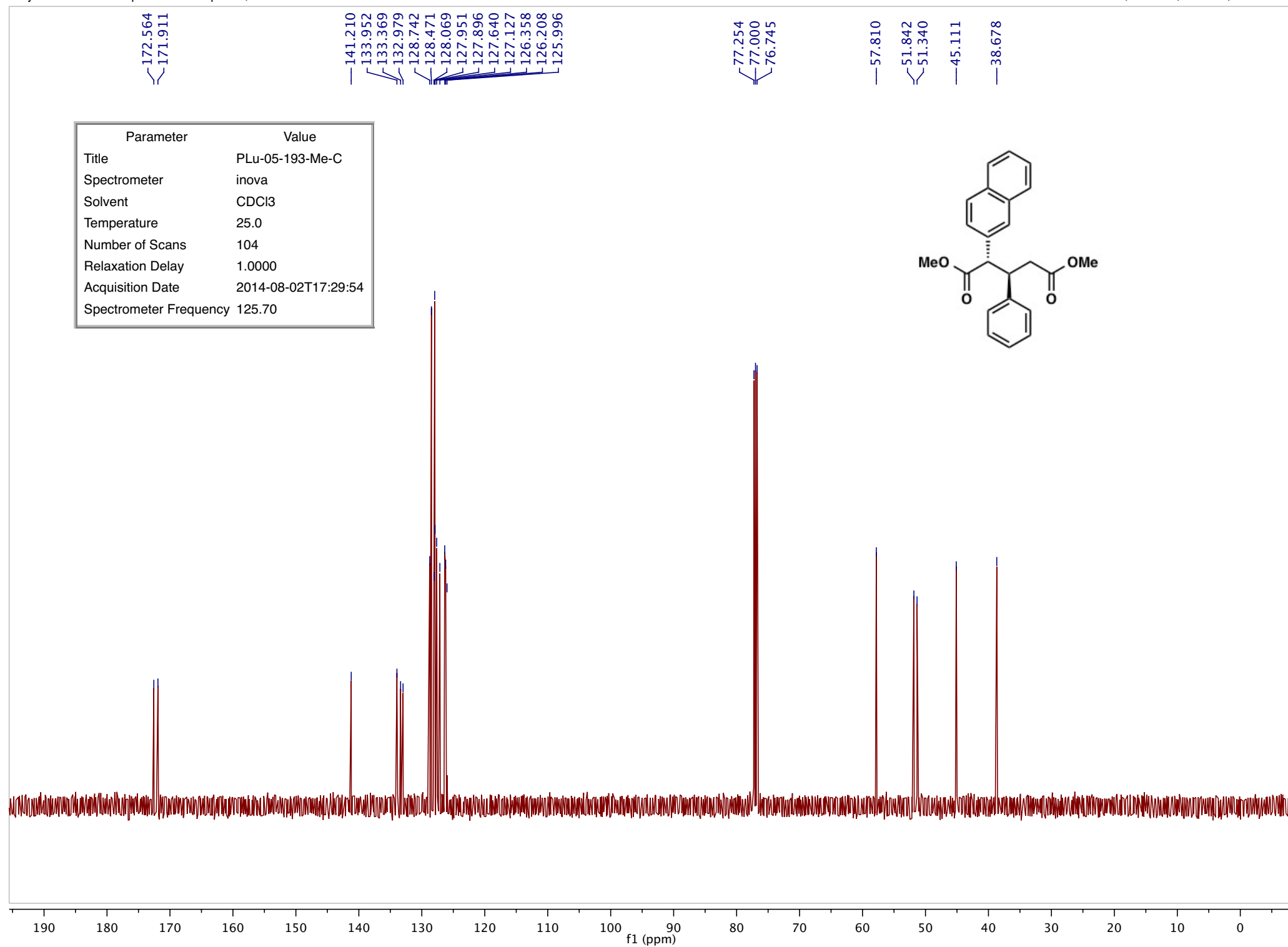


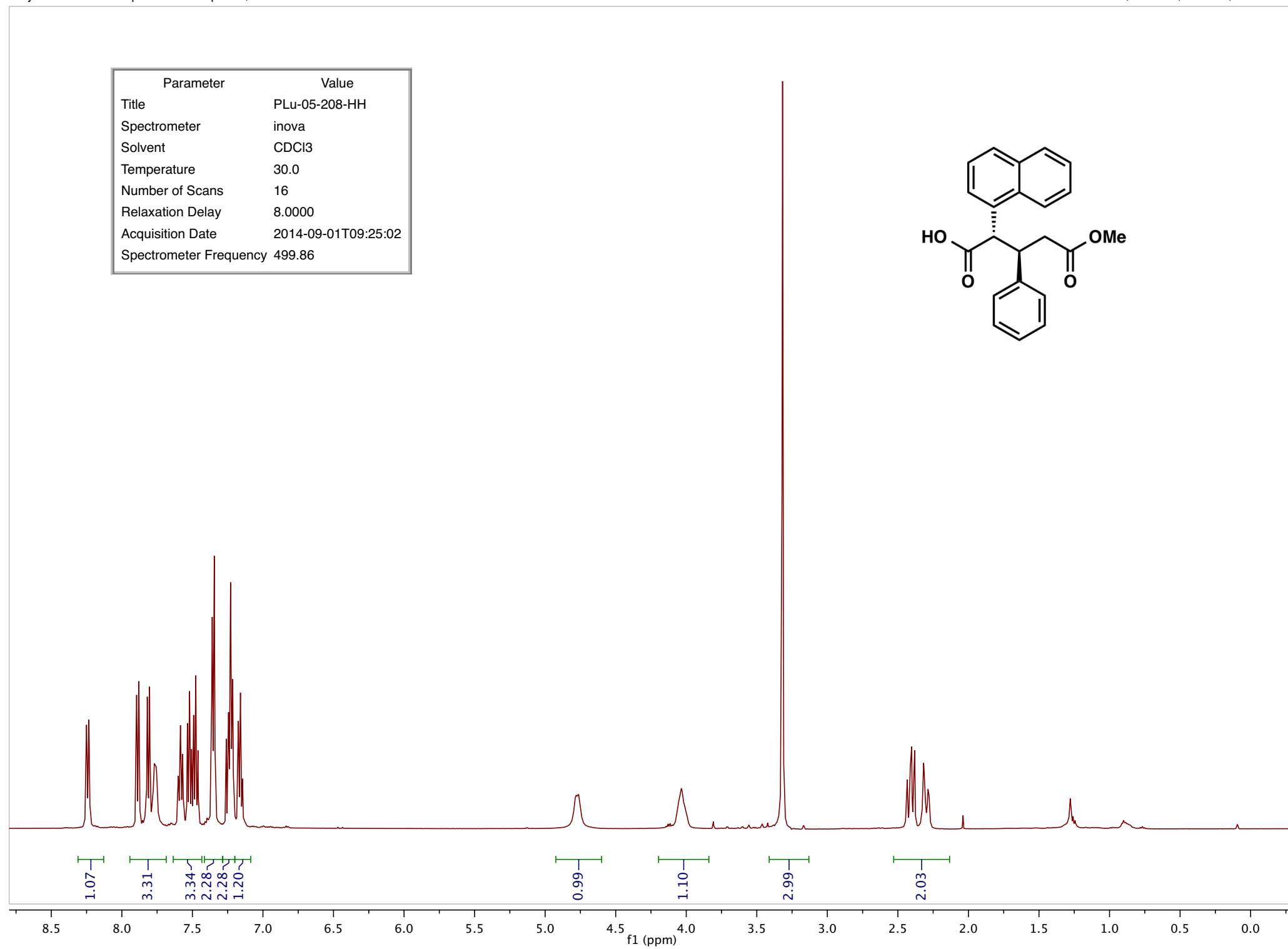


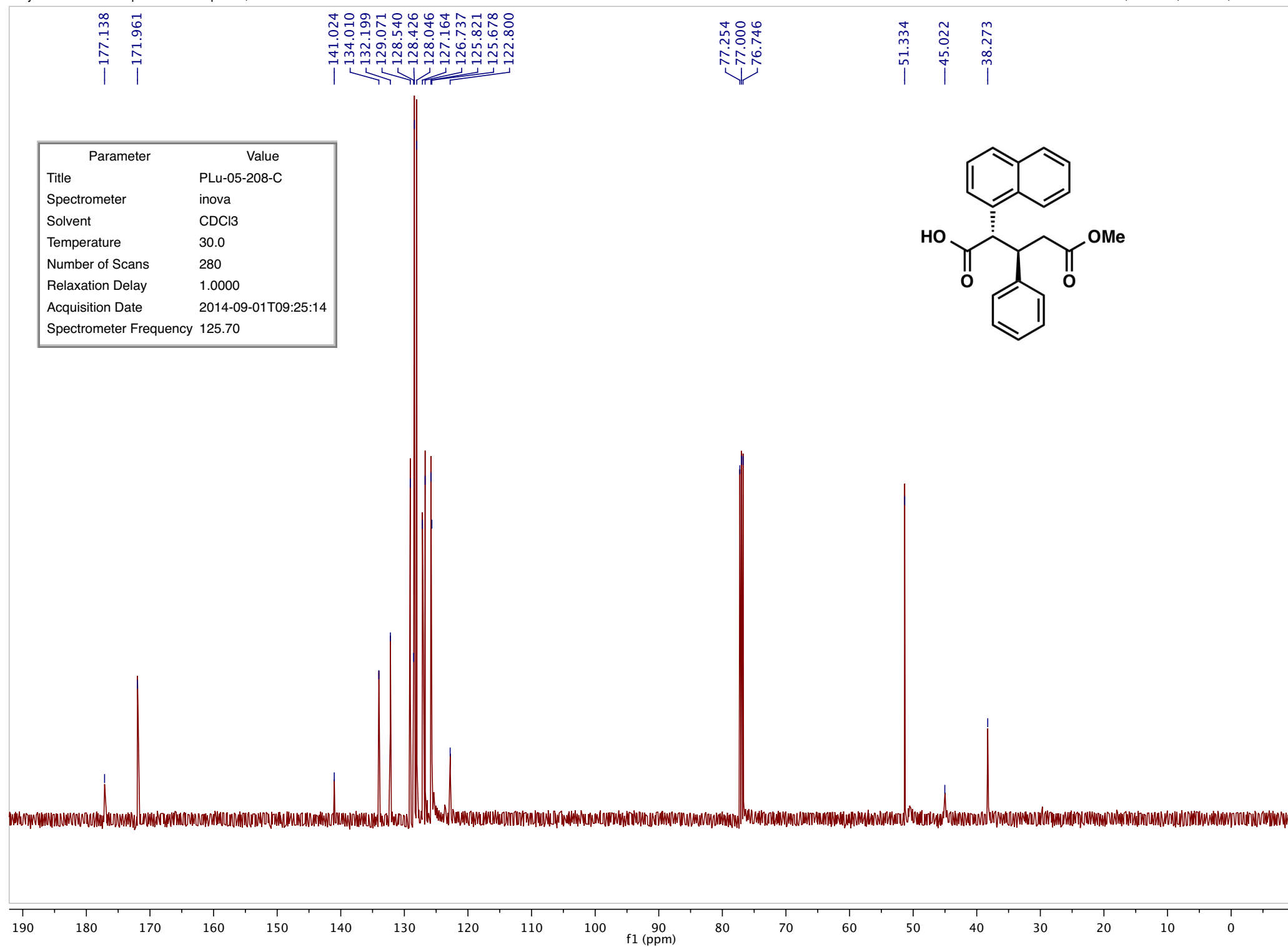


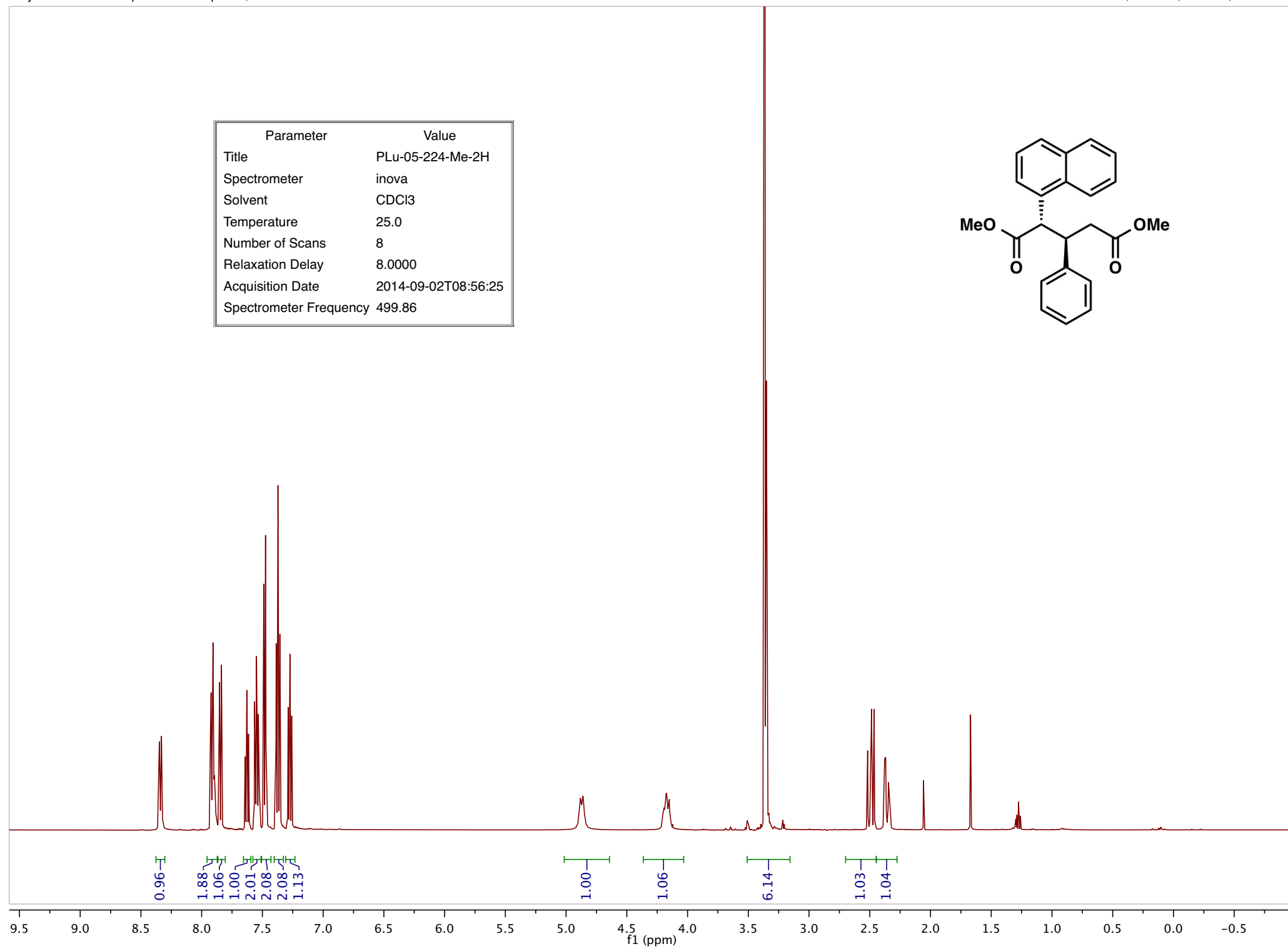


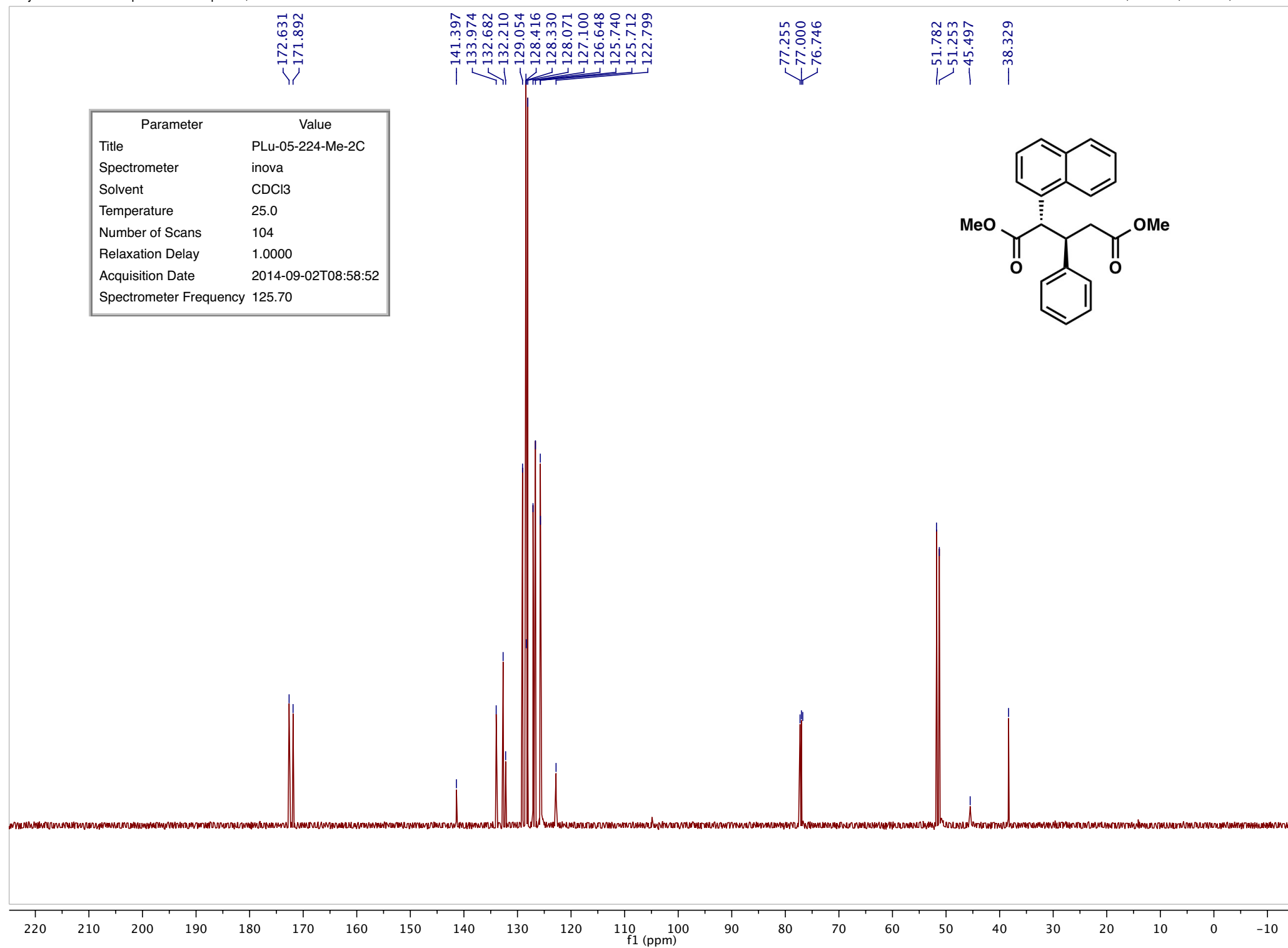


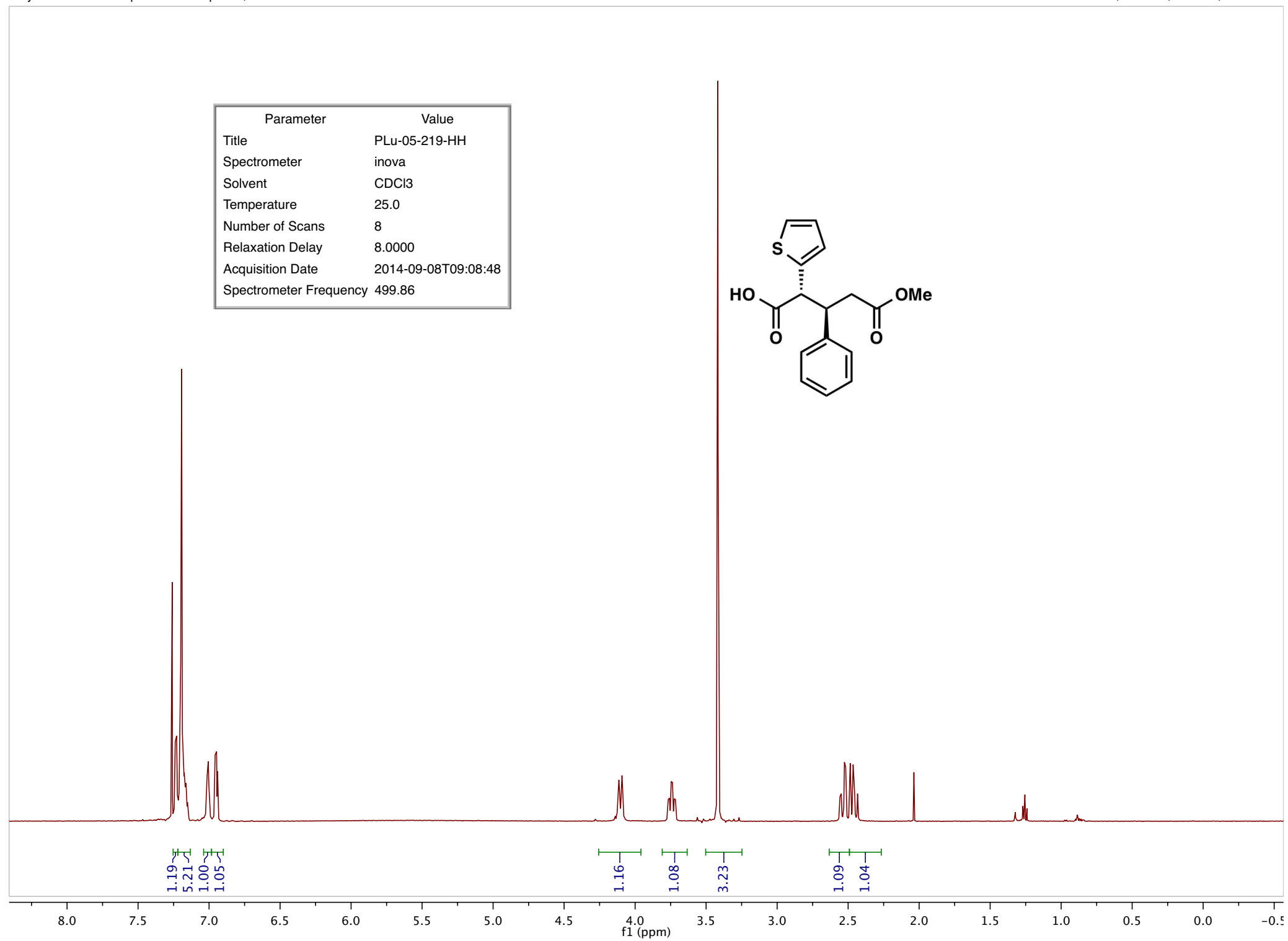


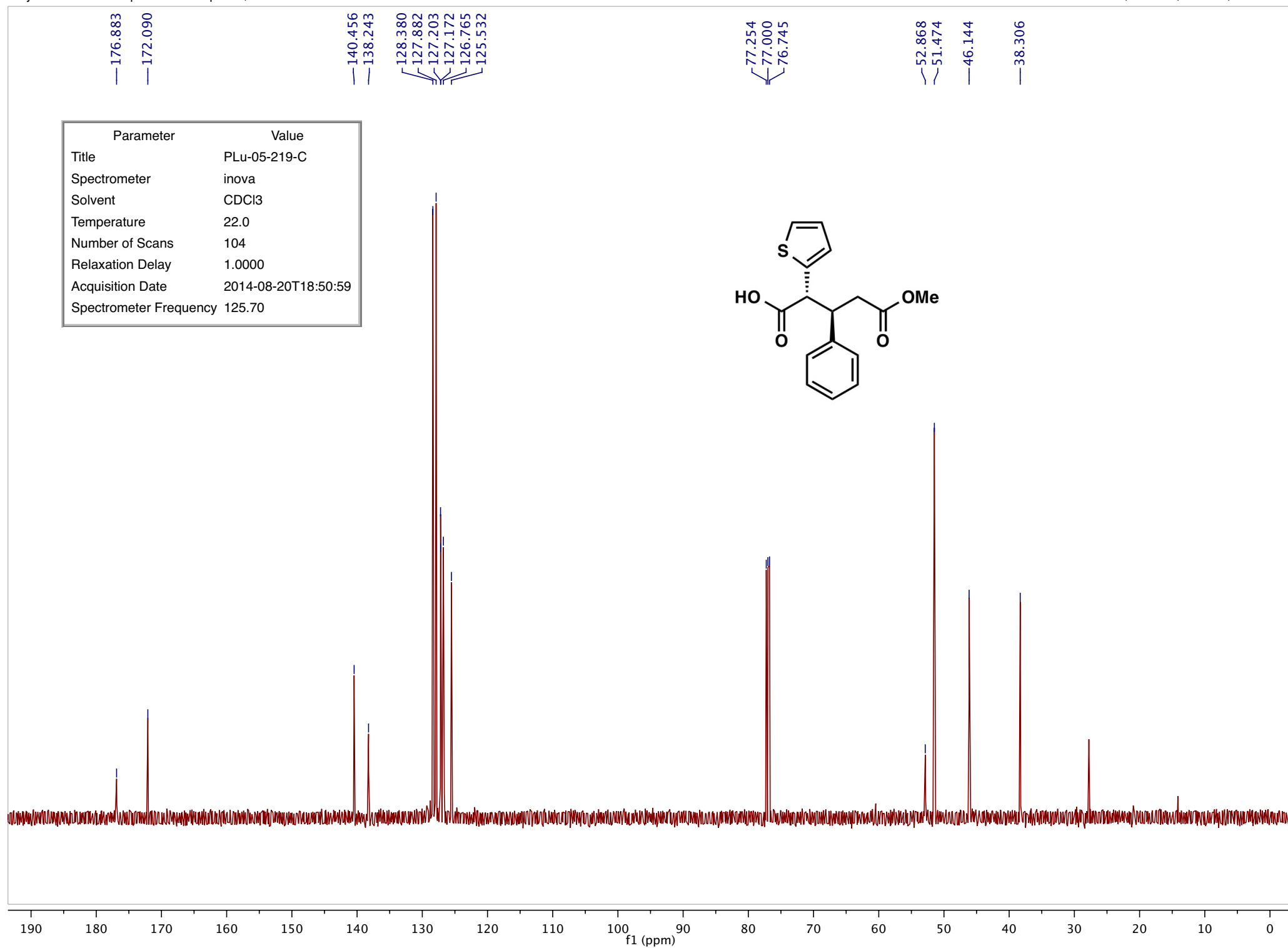


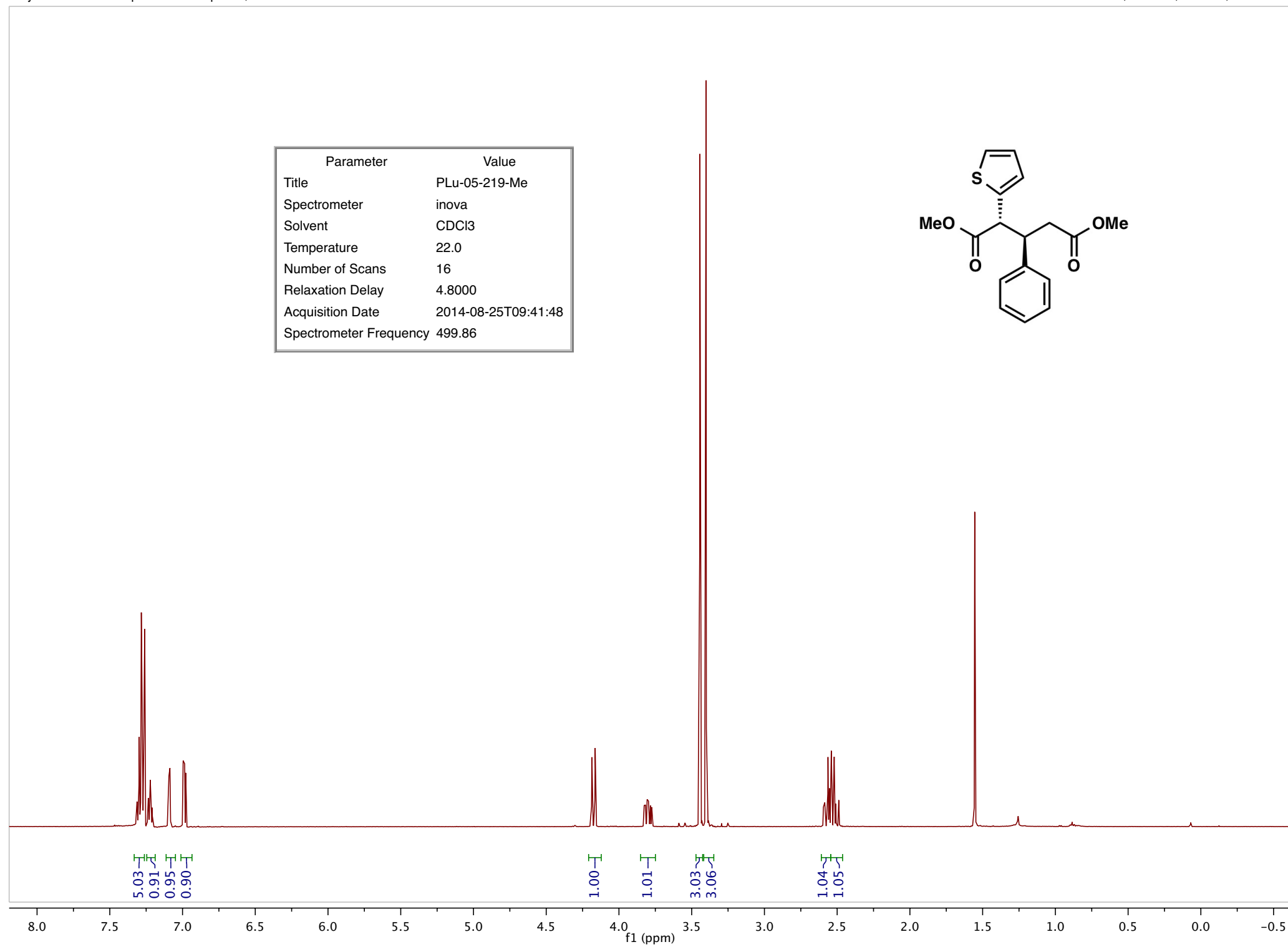


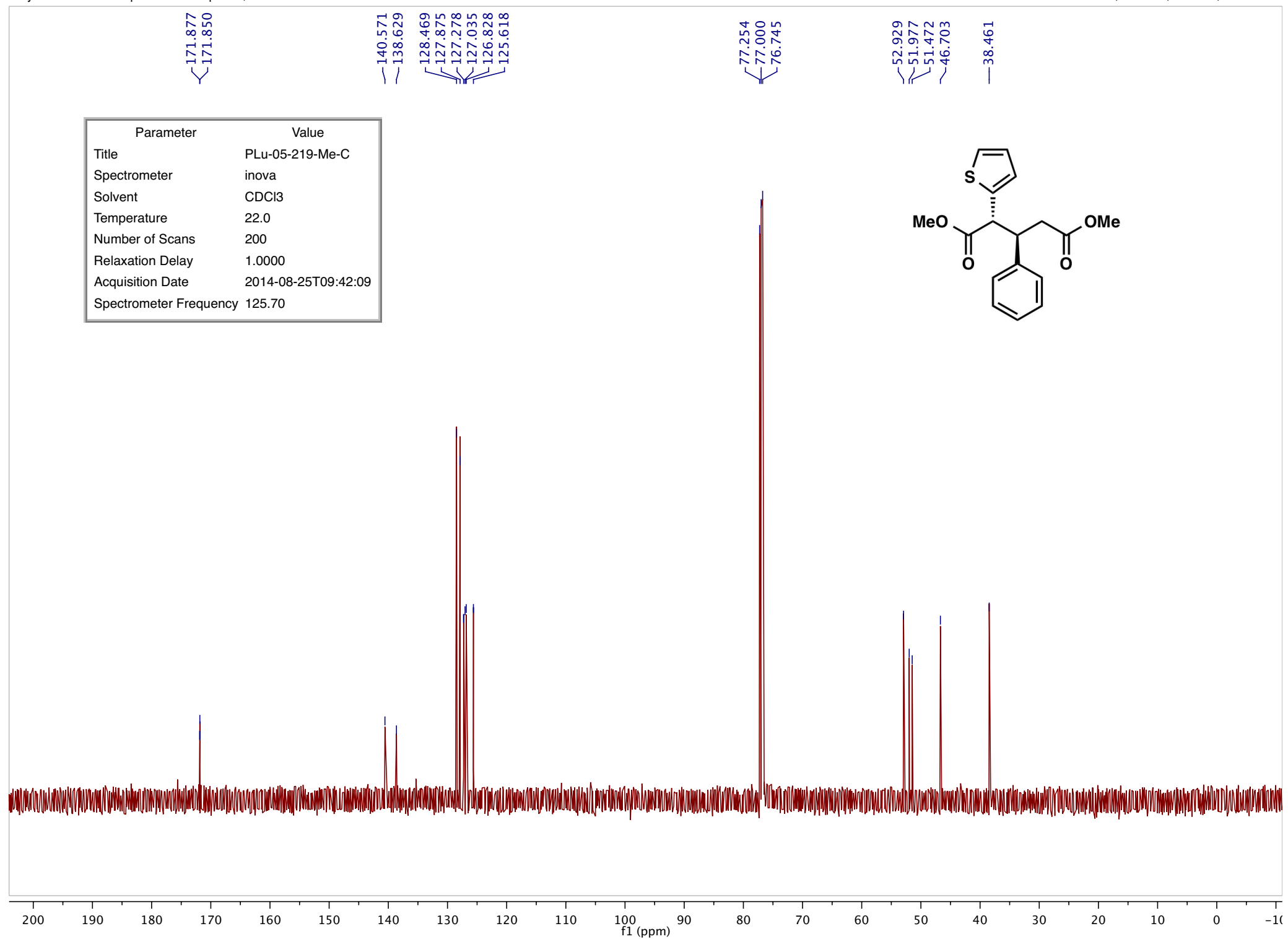




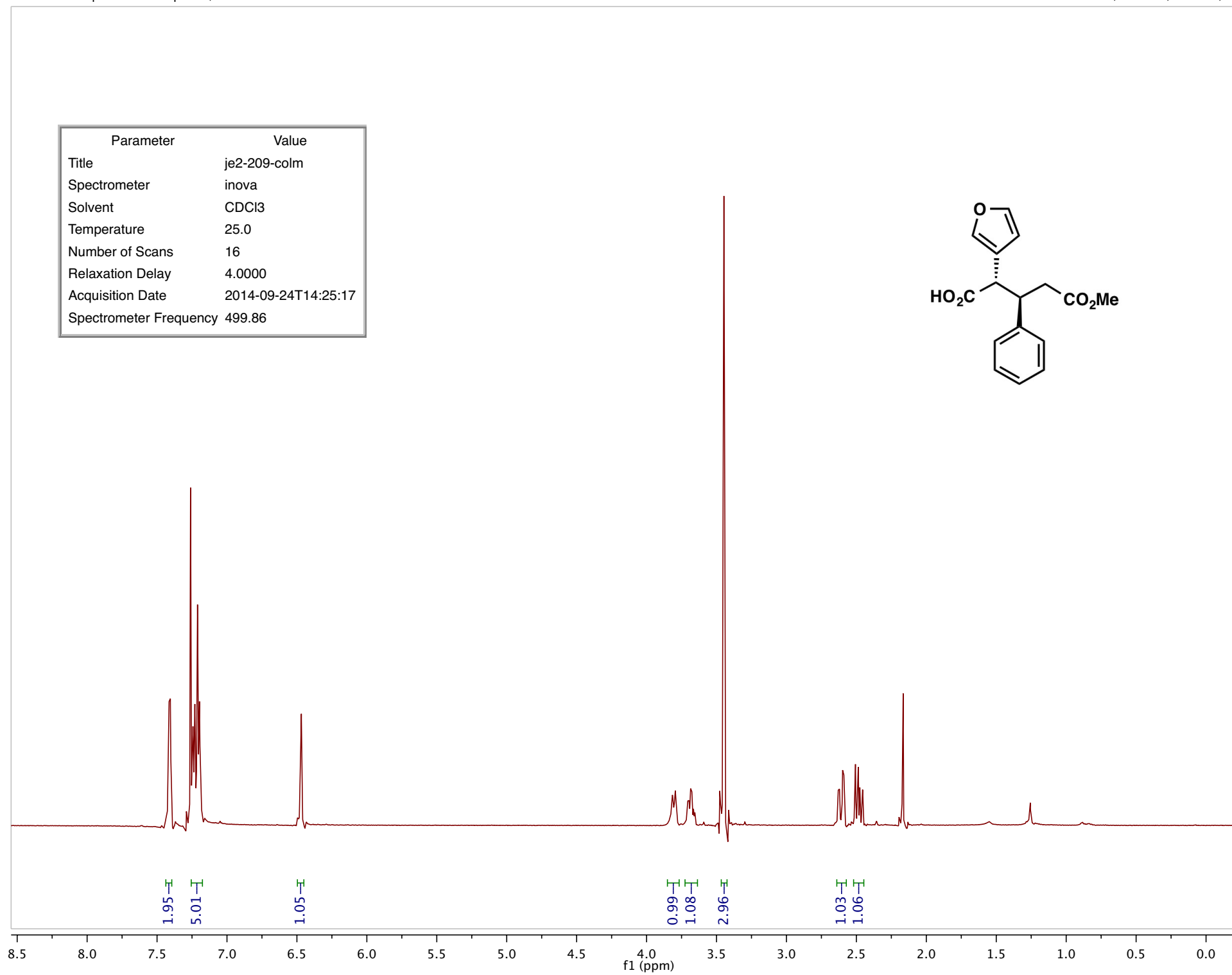


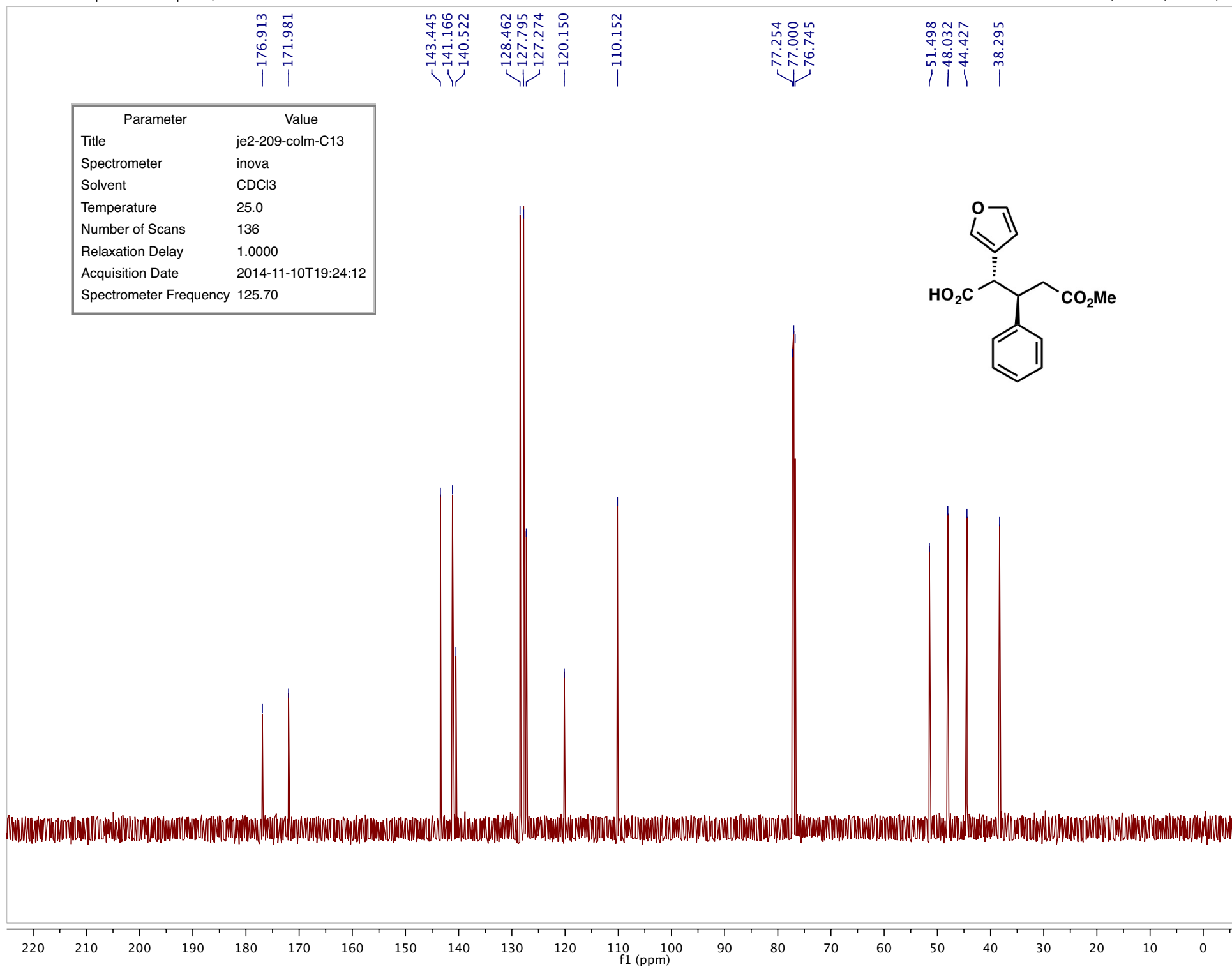


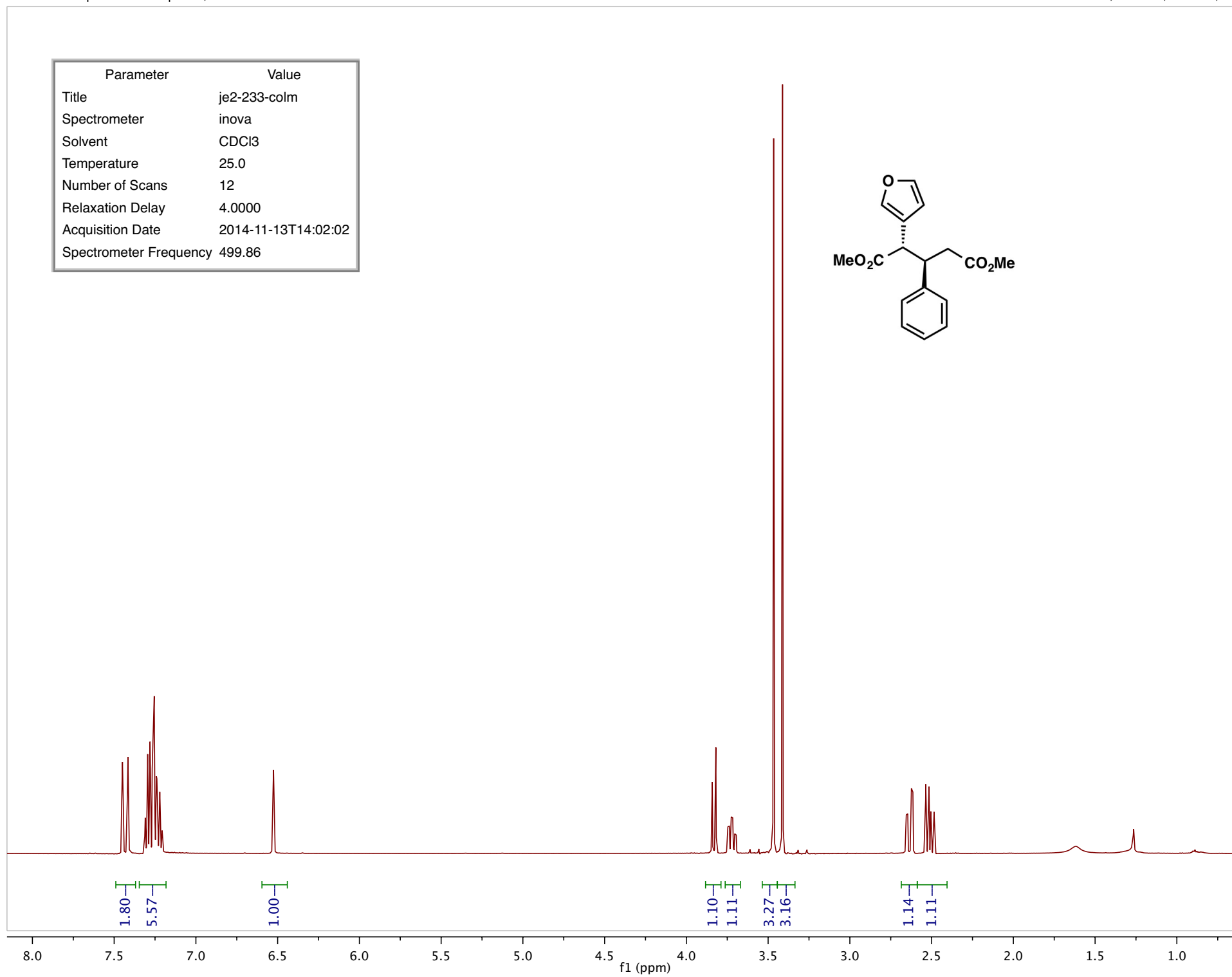


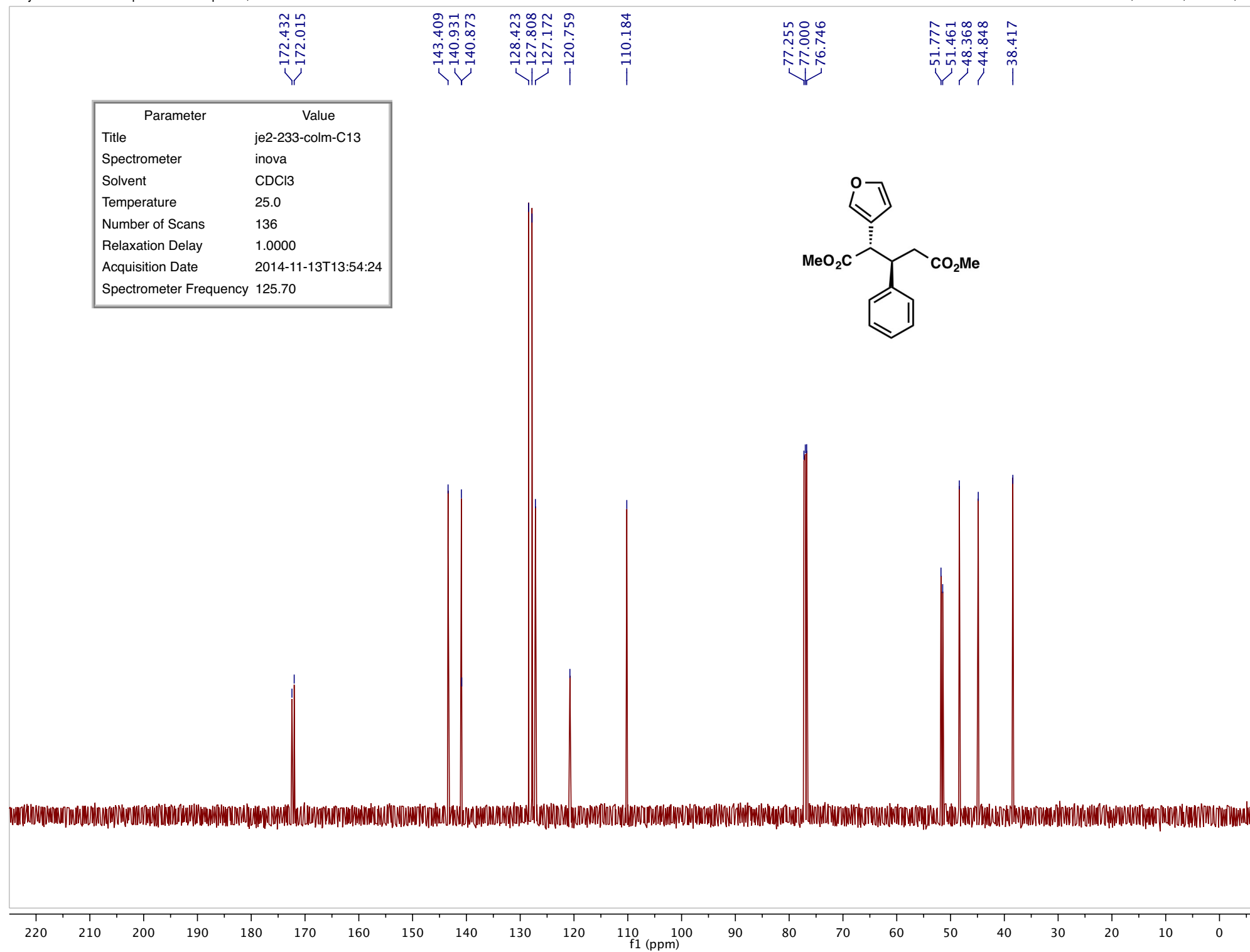


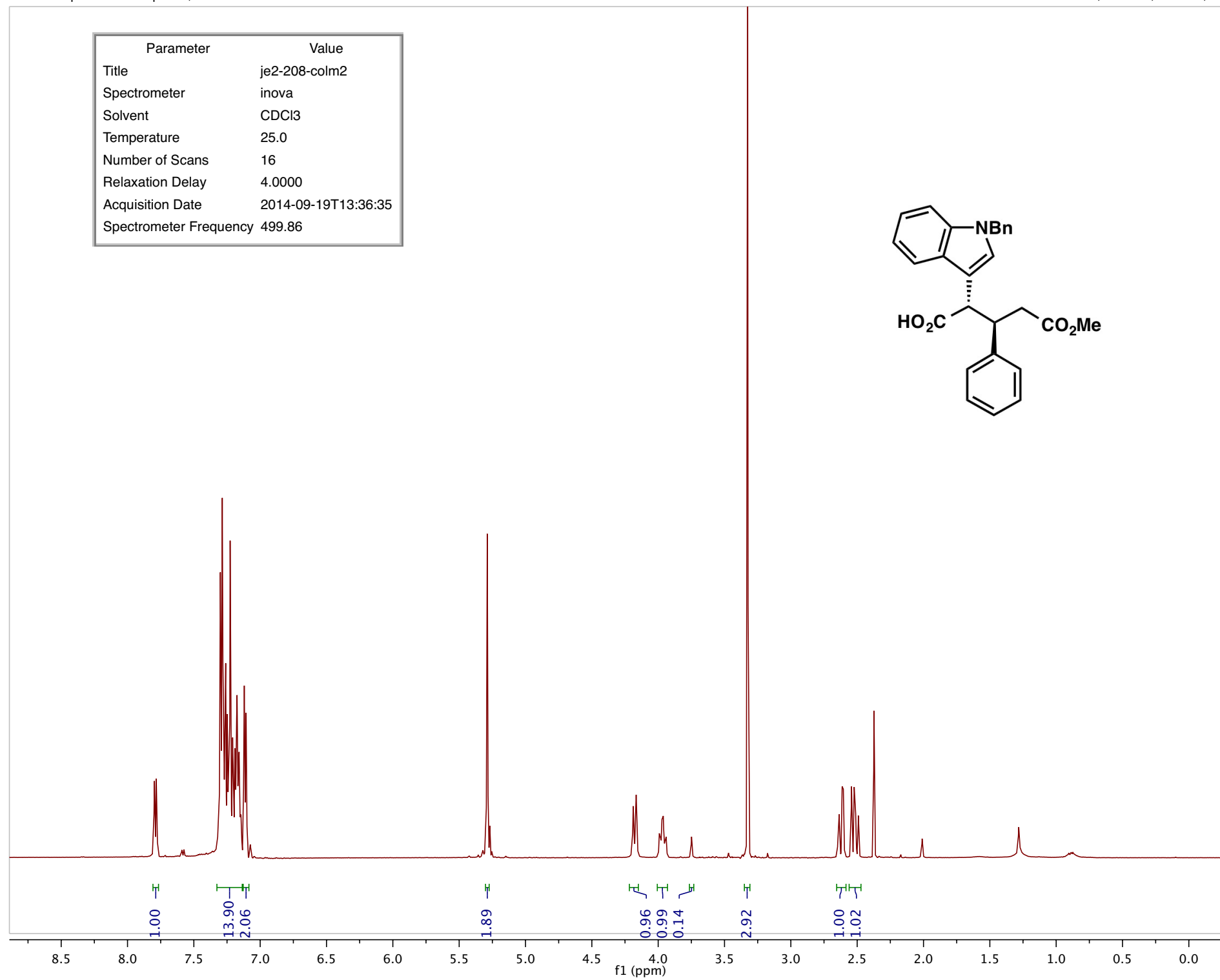
Parameter	Value
Title	PLu-05-219-Me-C
Spectrometer	inova
Solvent	CDCl3
Temperature	22.0
Number of Scans	200
Relaxation Delay	1.0000
Acquisition Date	2014-08-25T09:42:09
Spectrometer Frequency	125.70

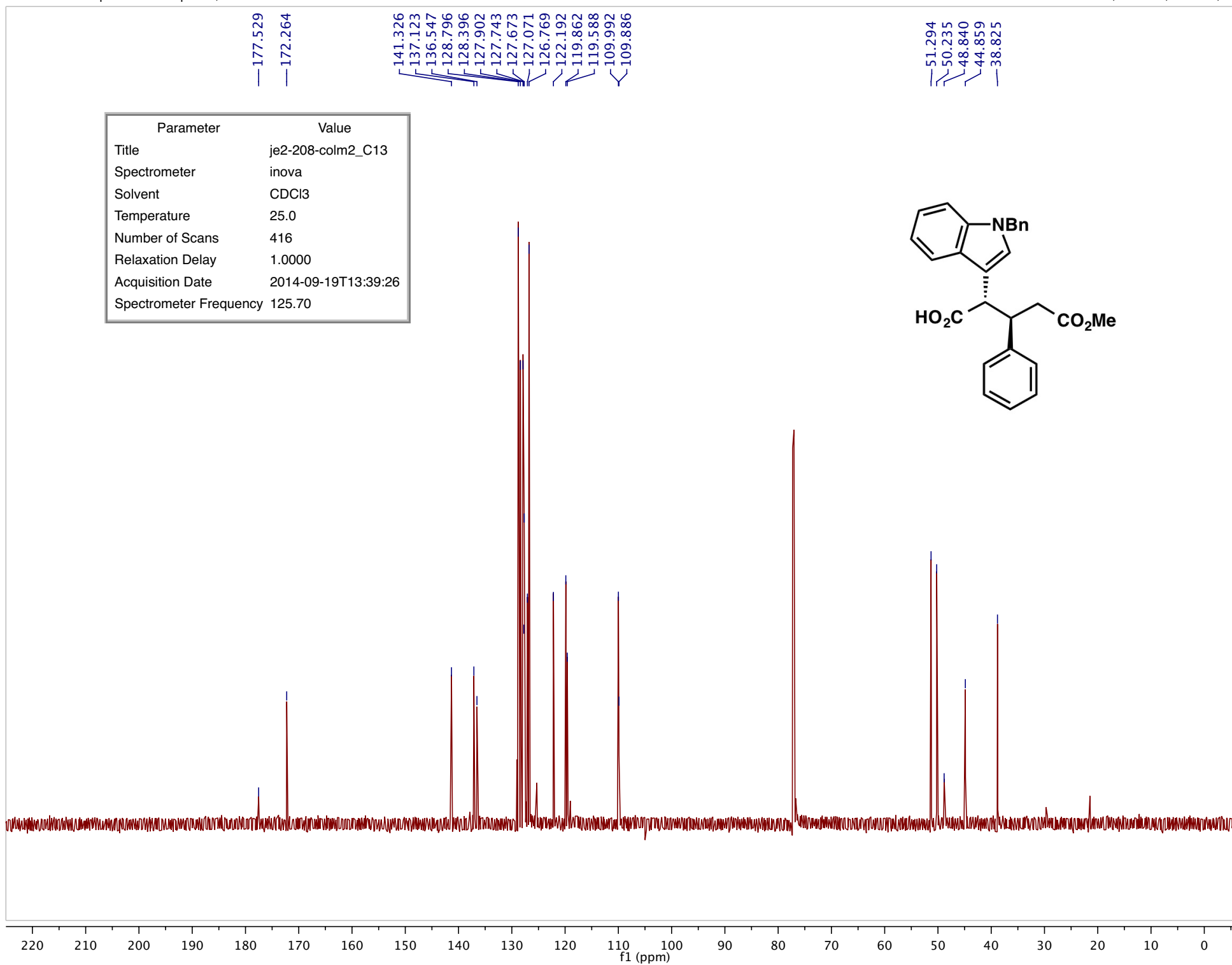


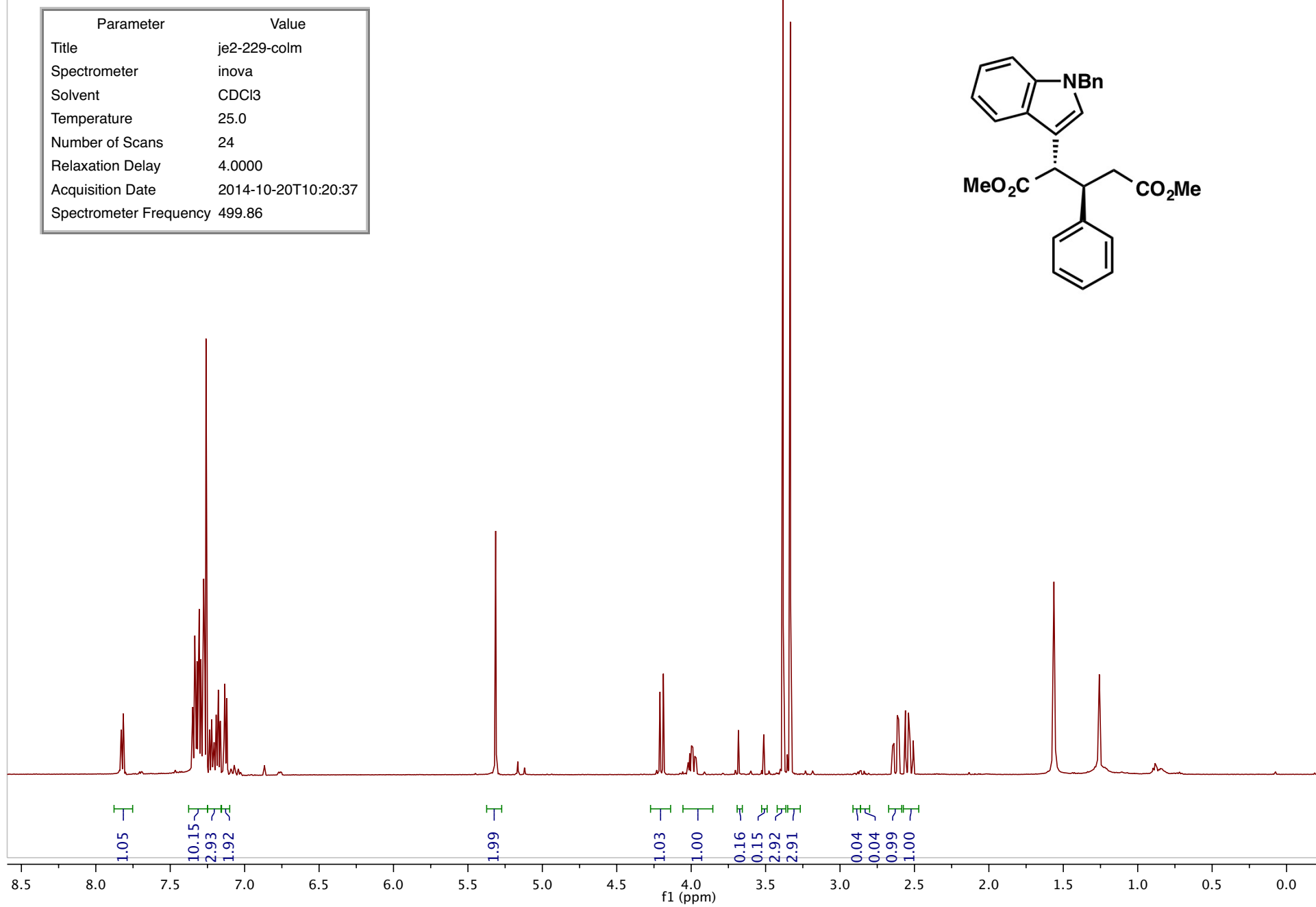


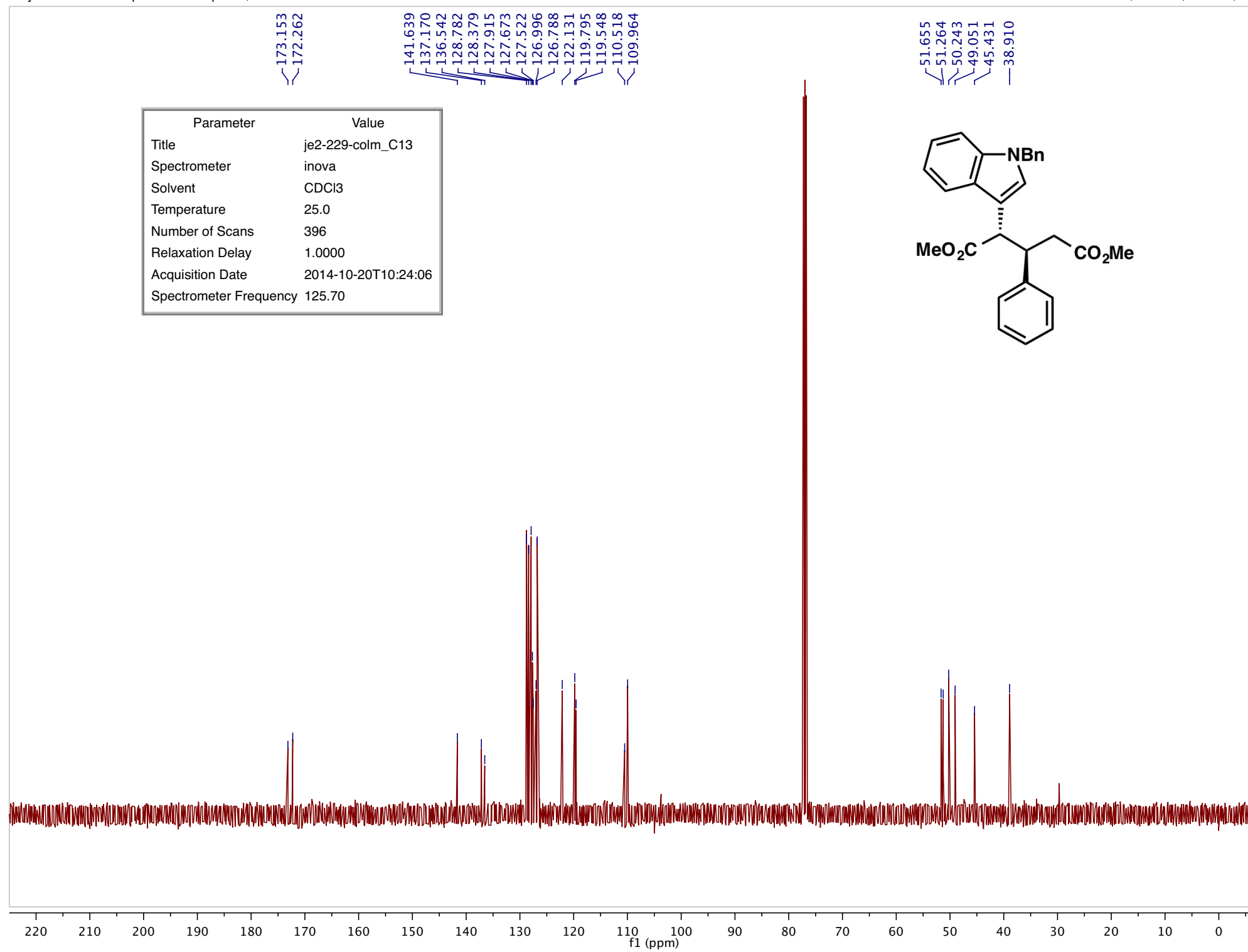


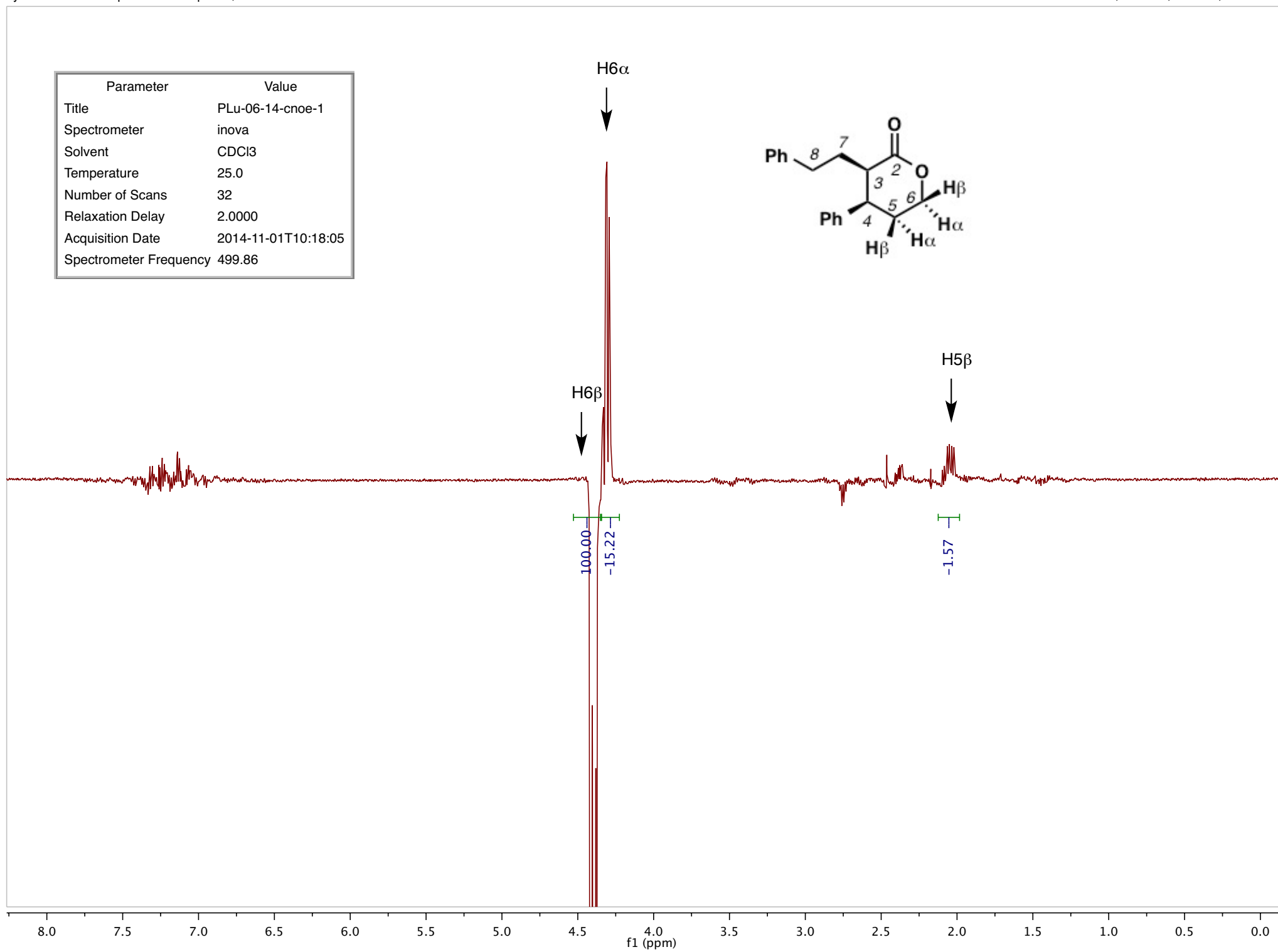


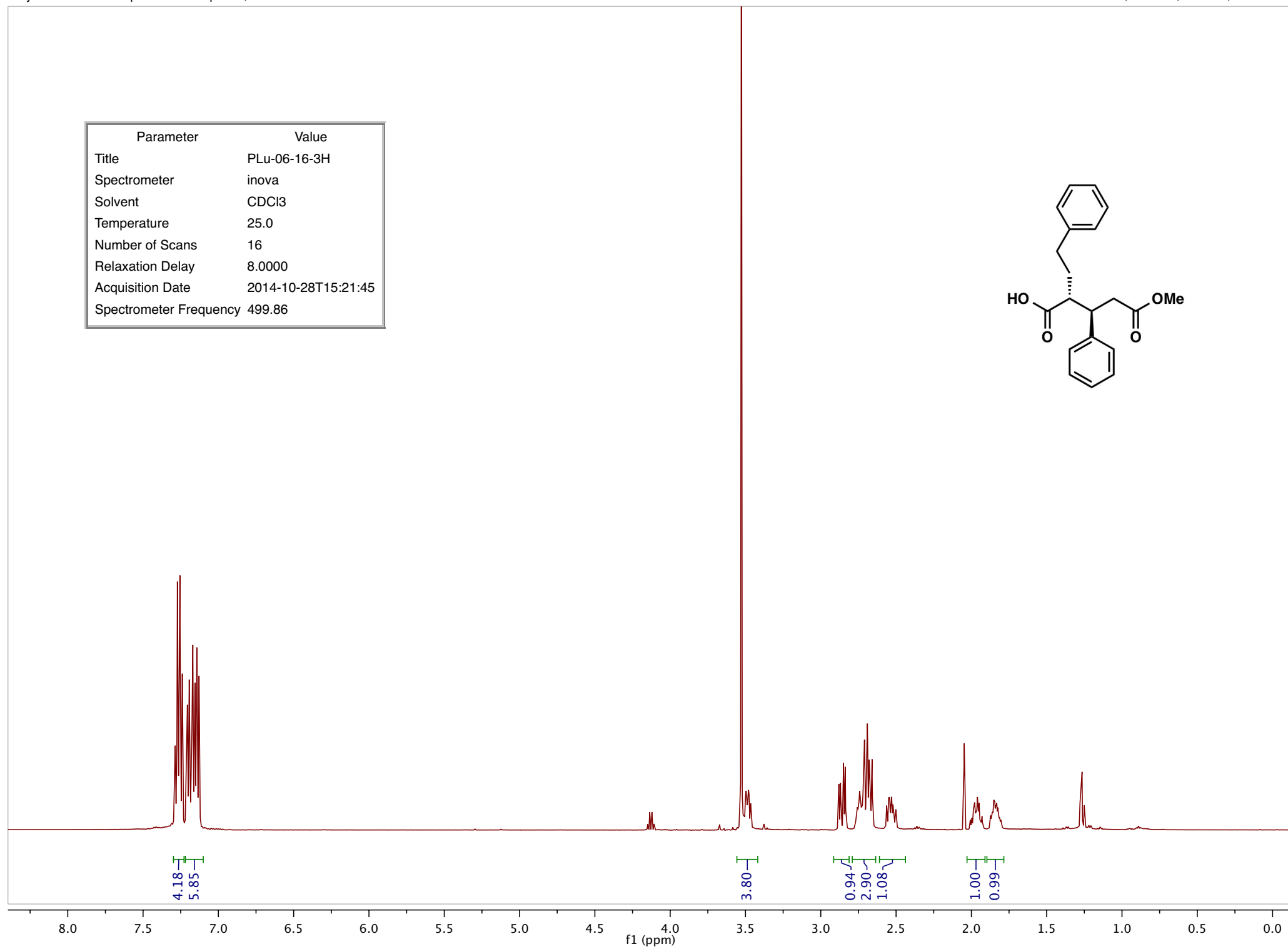


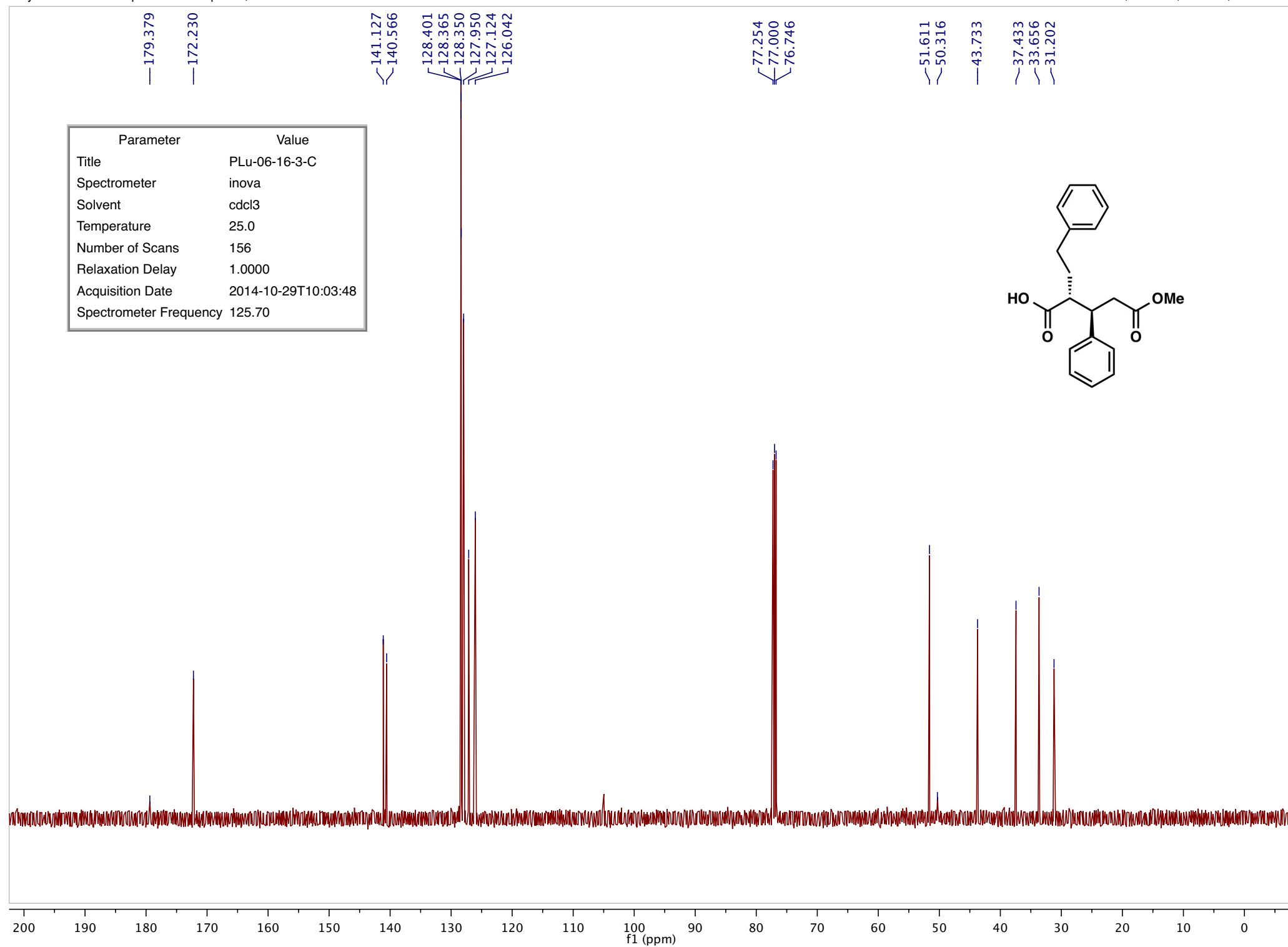




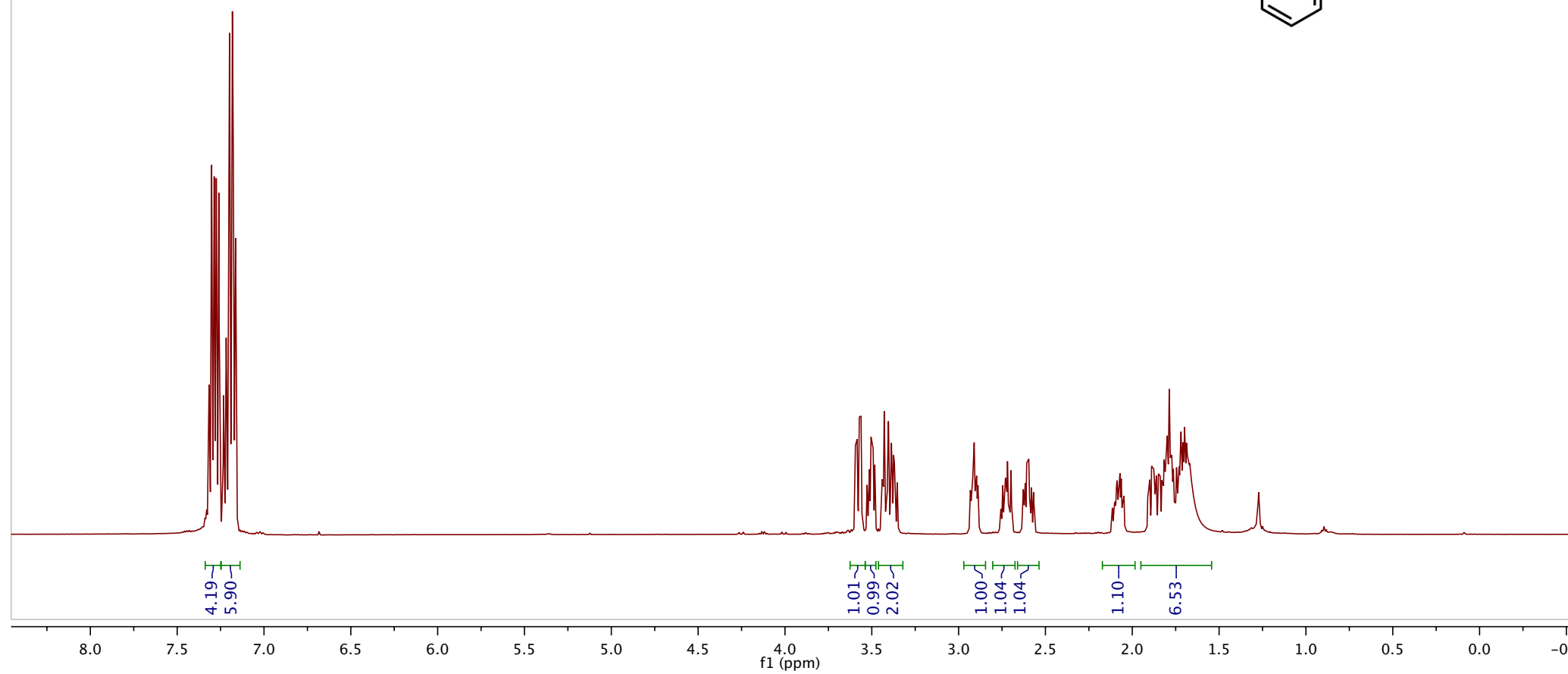
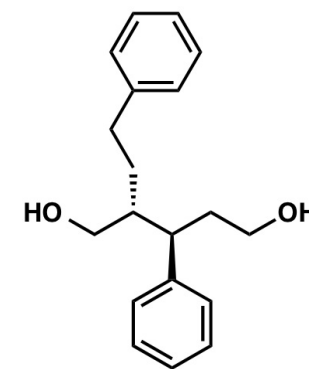


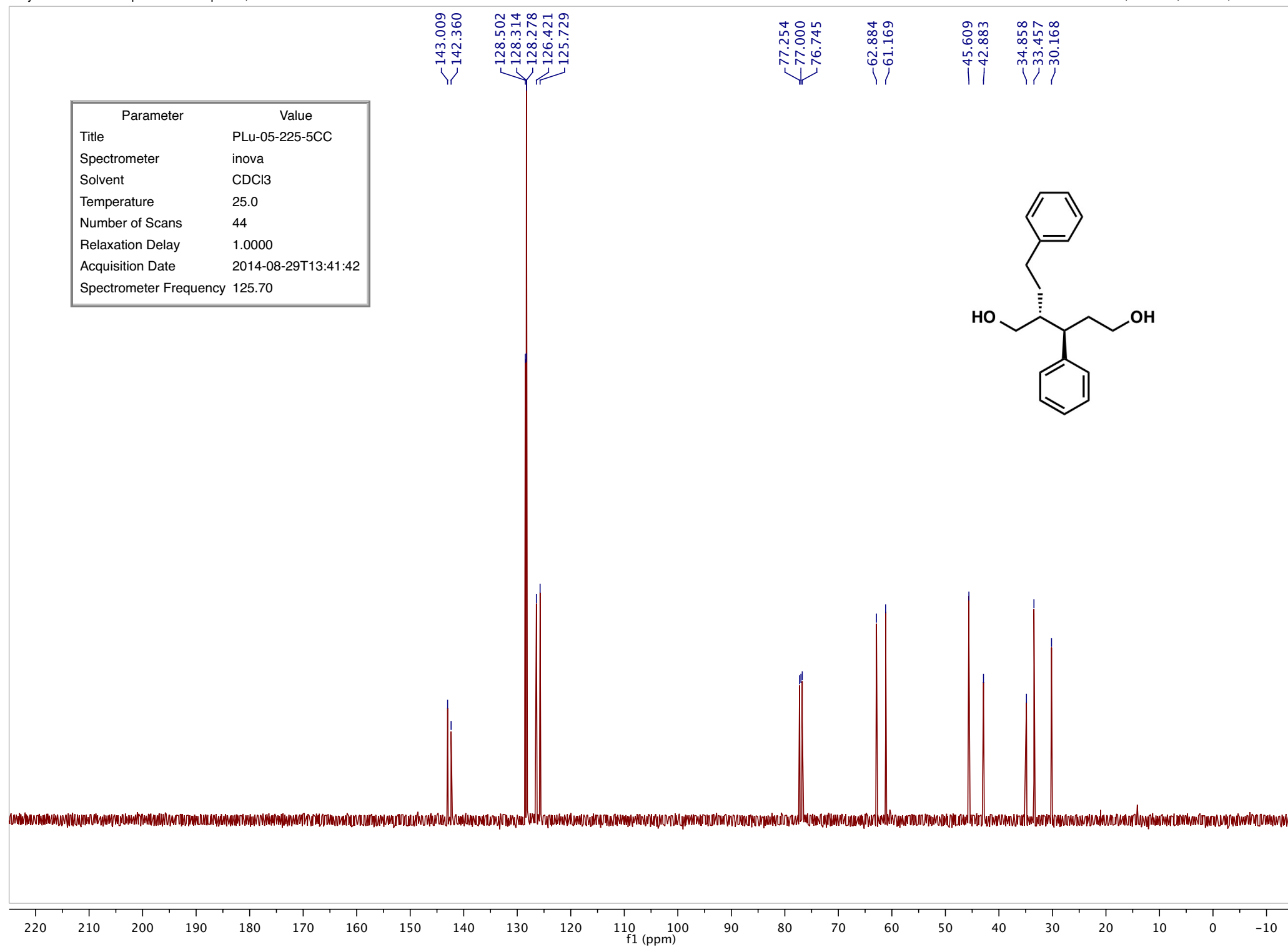


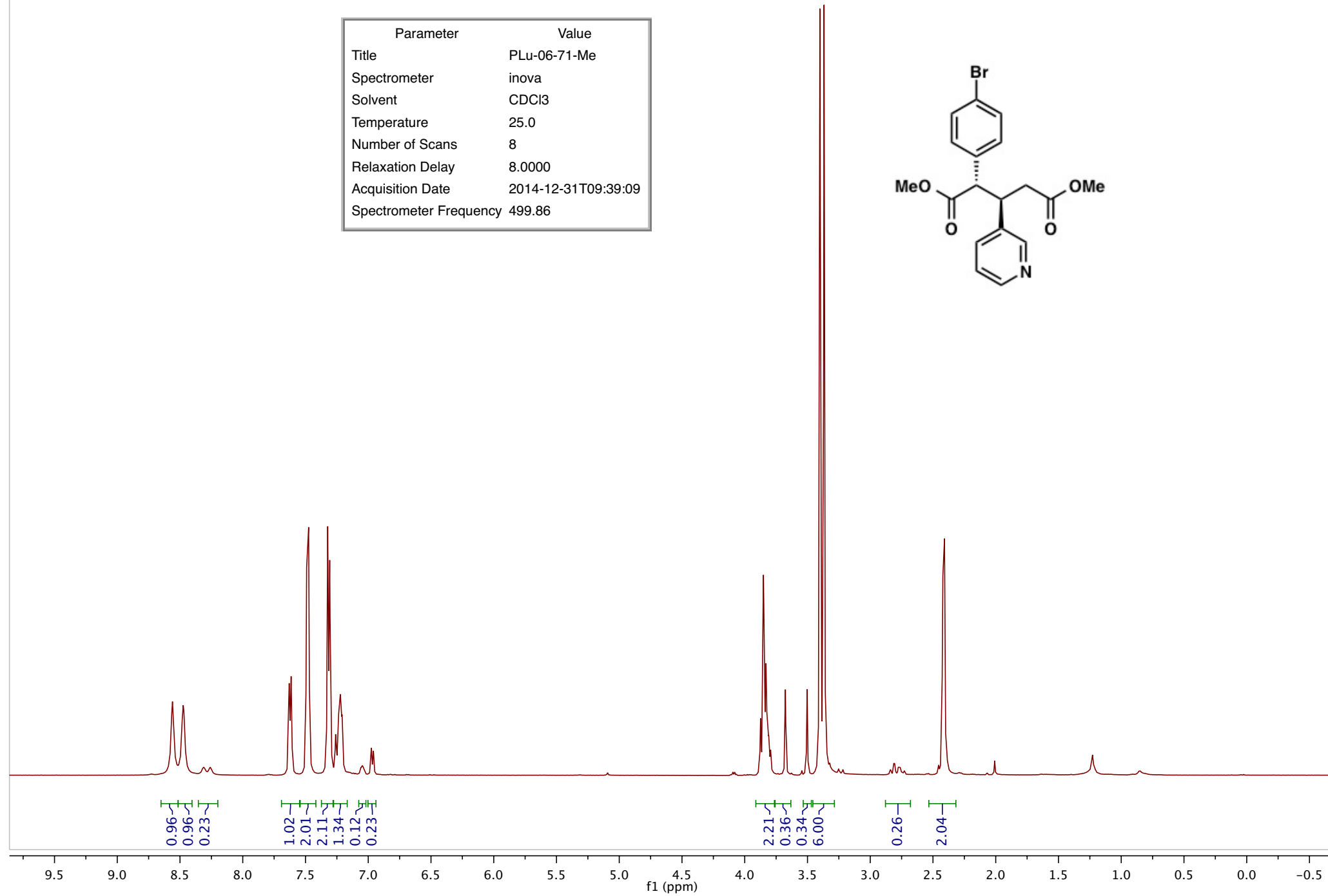


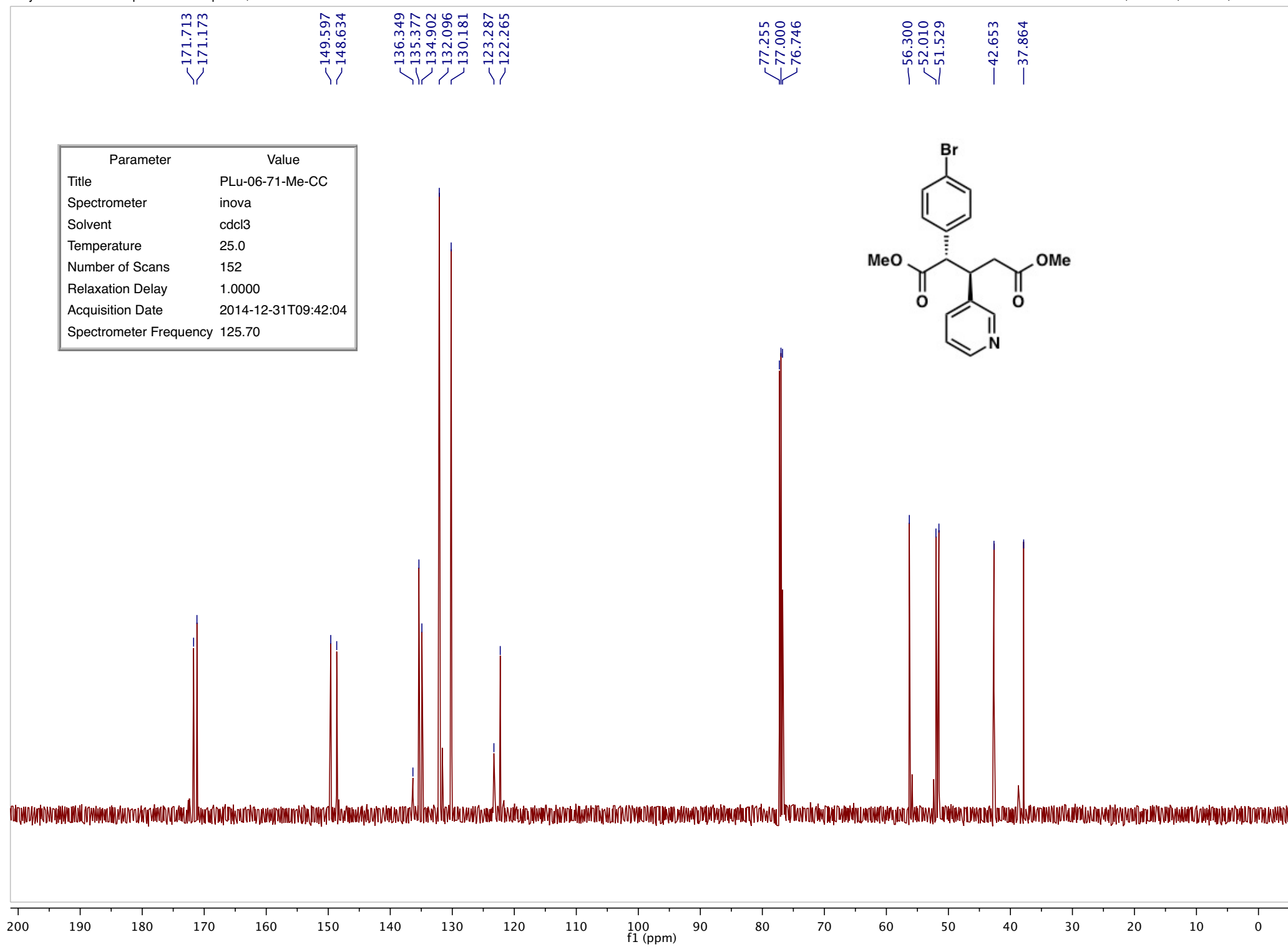


Parameter	Value
Title	PLu-05-225-5H
Spectrometer	inova
Solvent	CDCl3
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Date	2014-08-28T19:20:40
Spectrometer Frequency	499.86

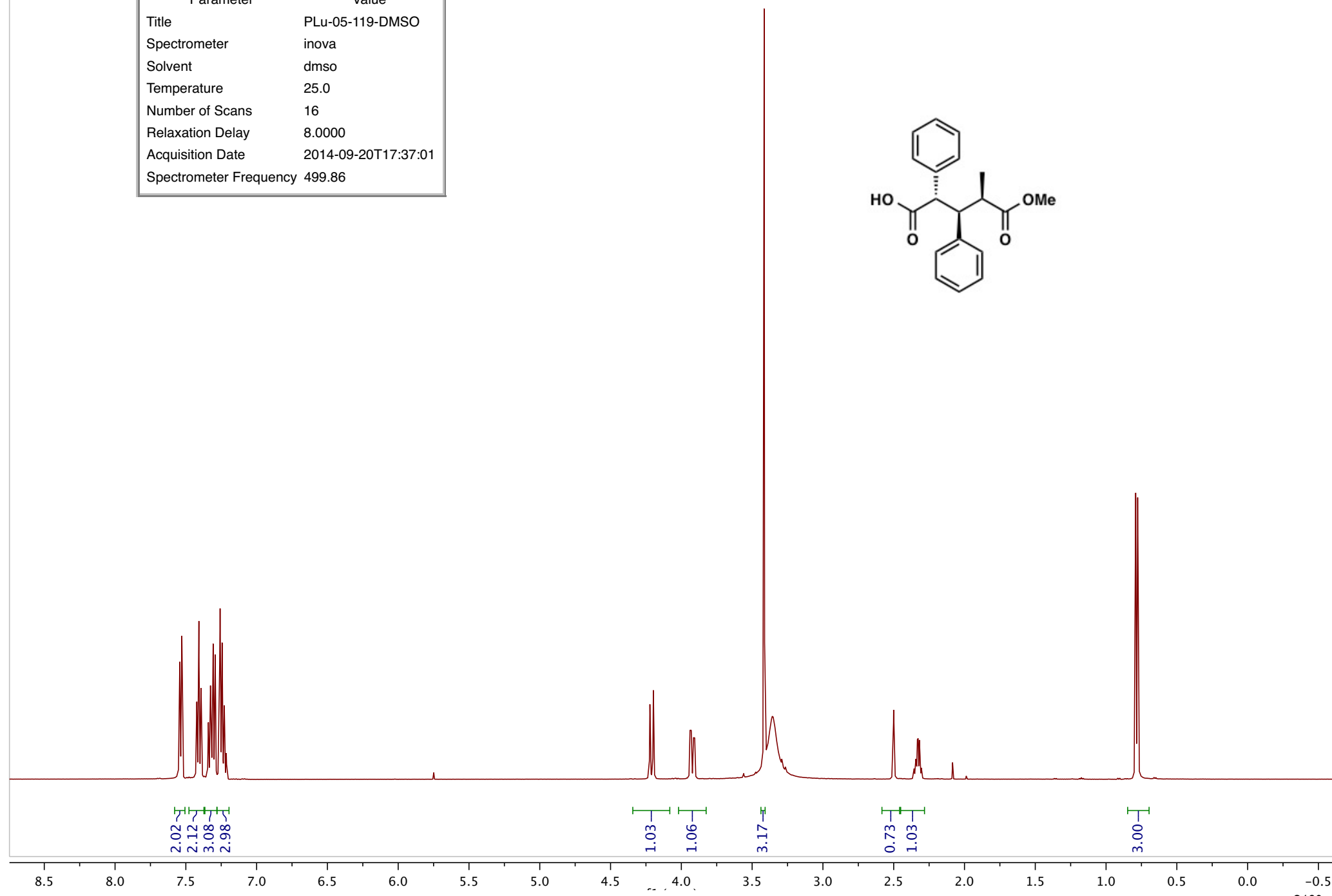
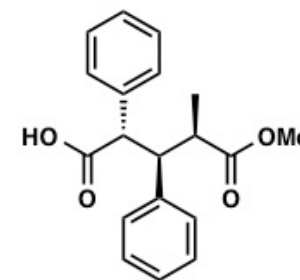


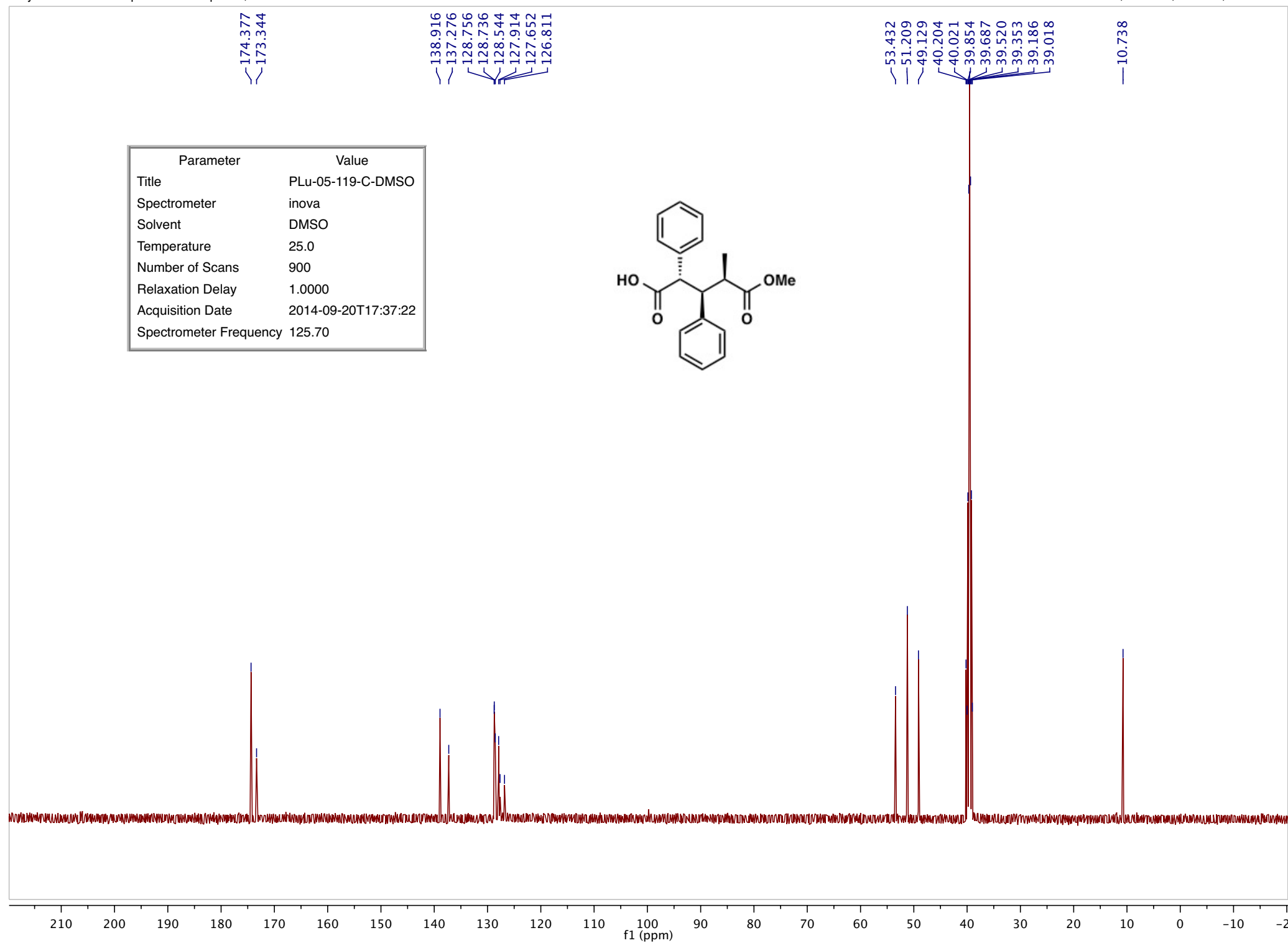


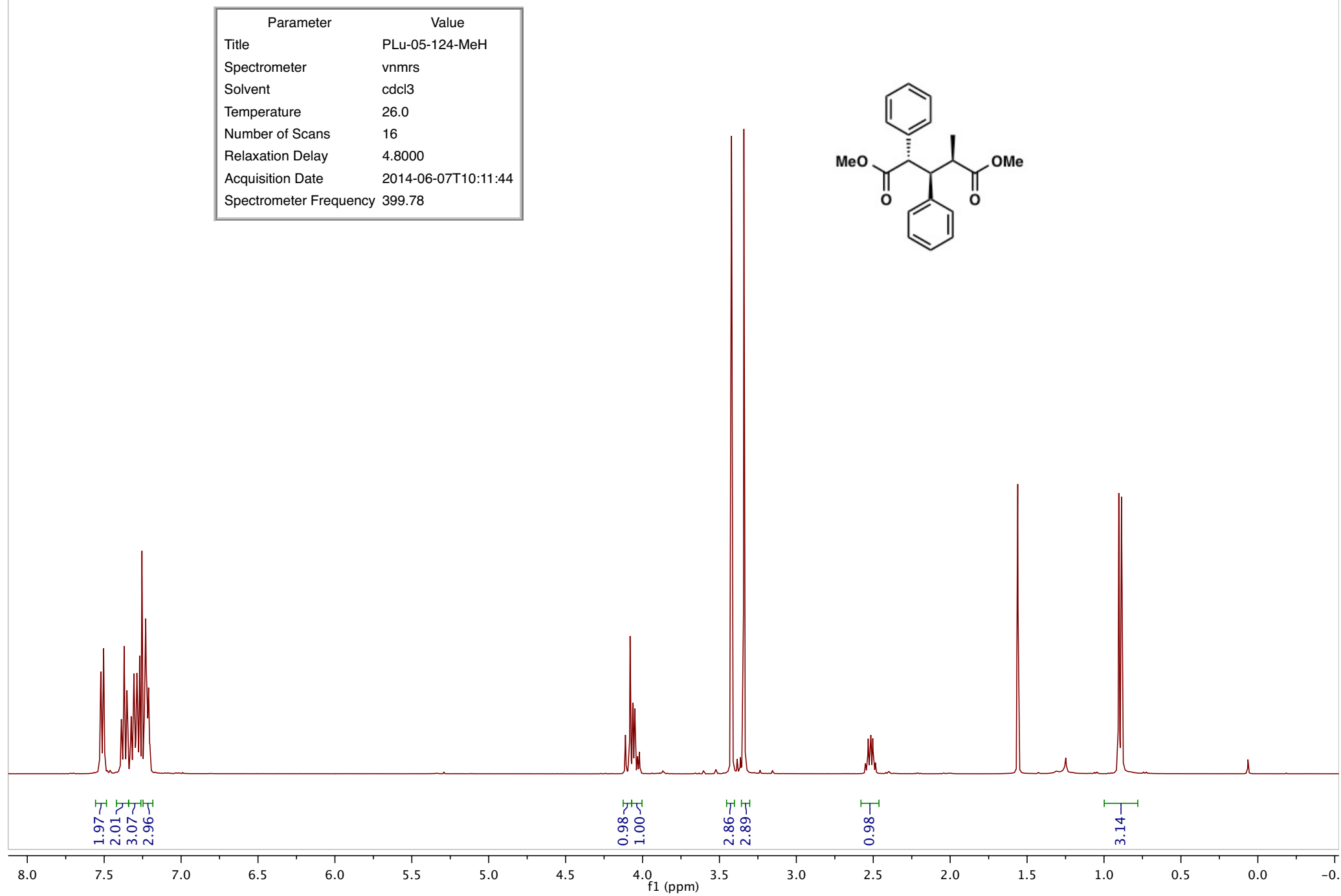


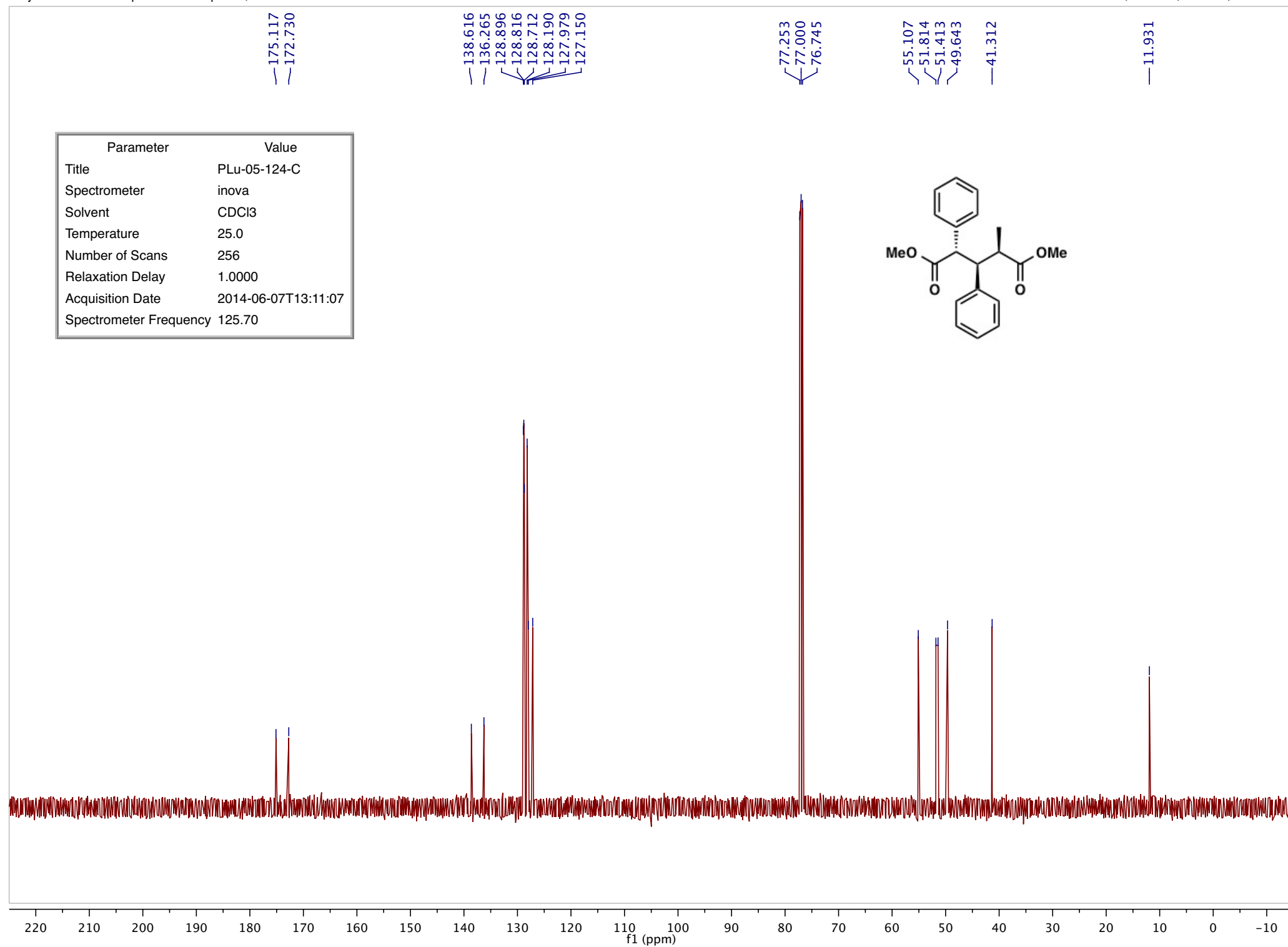


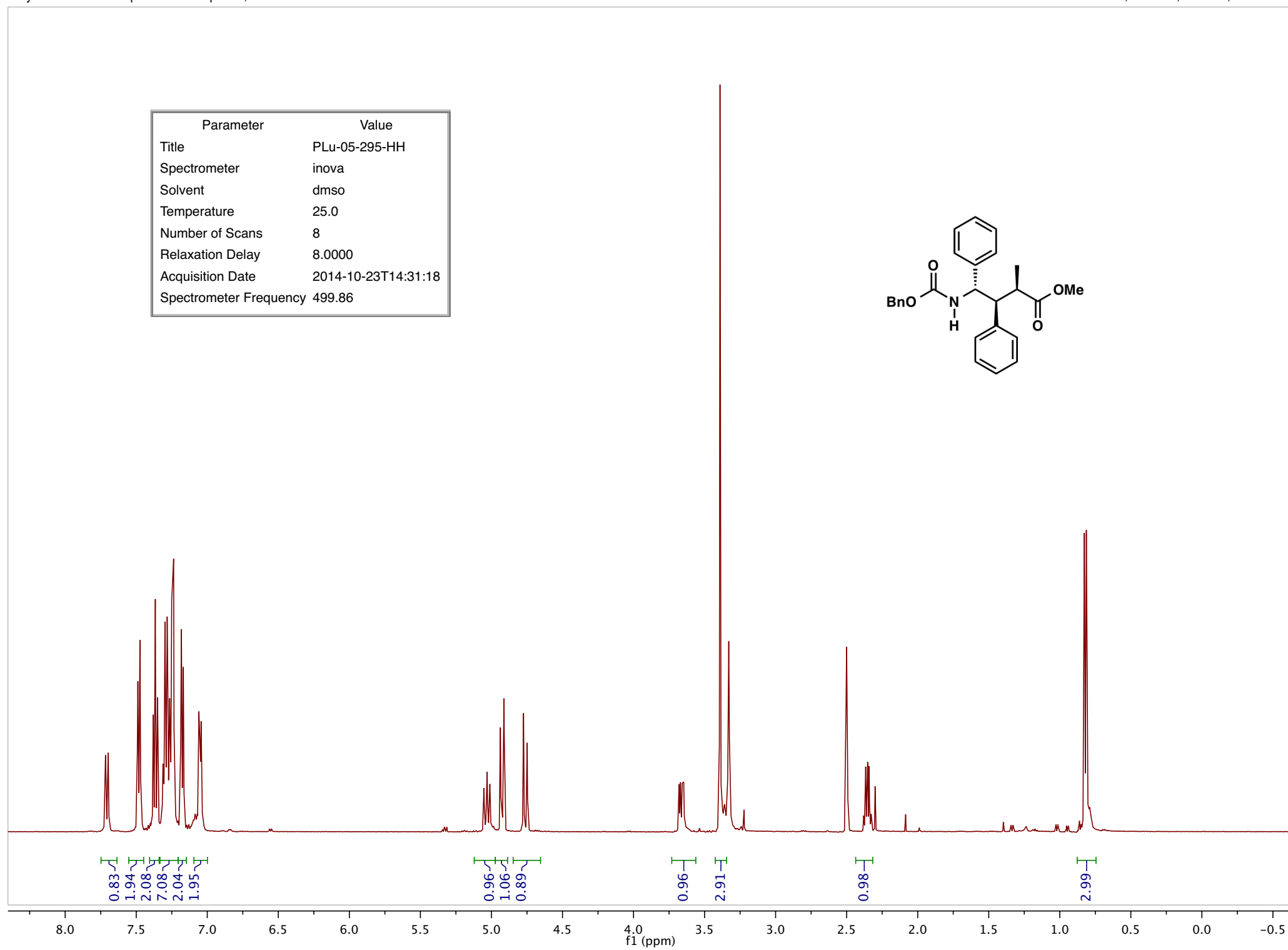
Parameter	Value
Title	PLu-05-119-DMSO
Spectrometer	inova
Solvent	dmsO
Temperature	25.0
Number of Scans	16
Relaxation Delay	8.0000
Acquisition Date	2014-09-20T17:37:01
Spectrometer Frequency	499.86

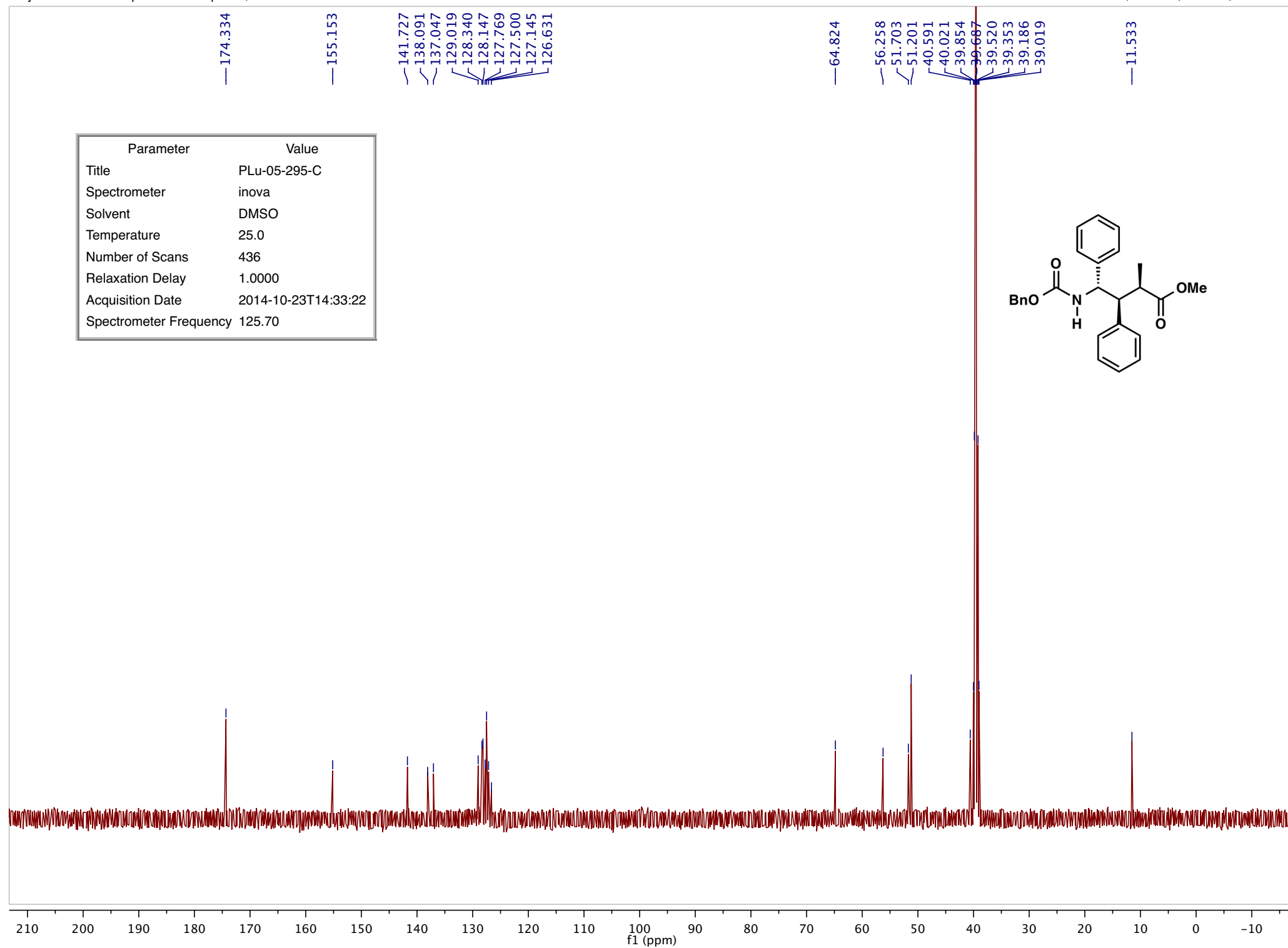


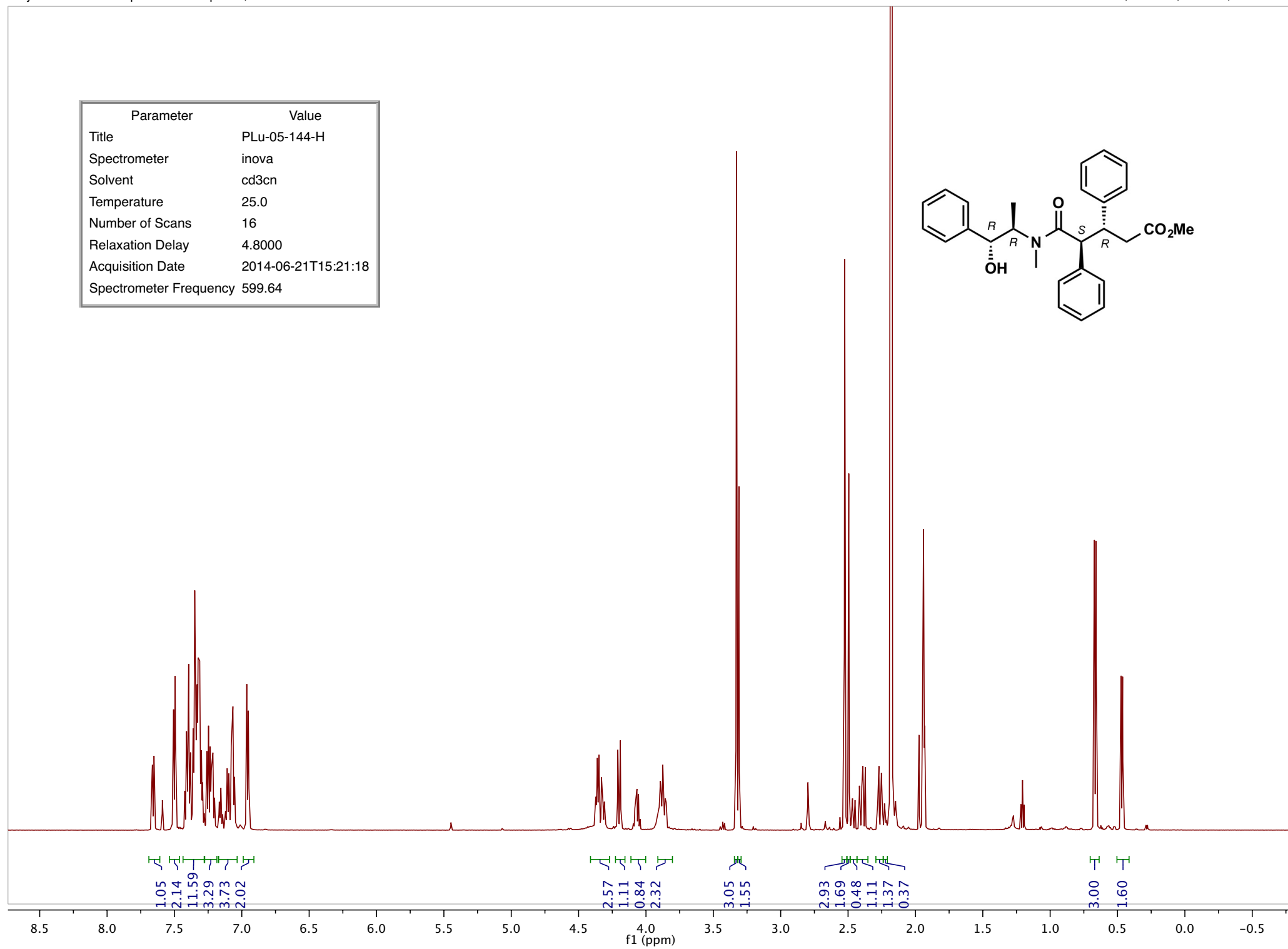


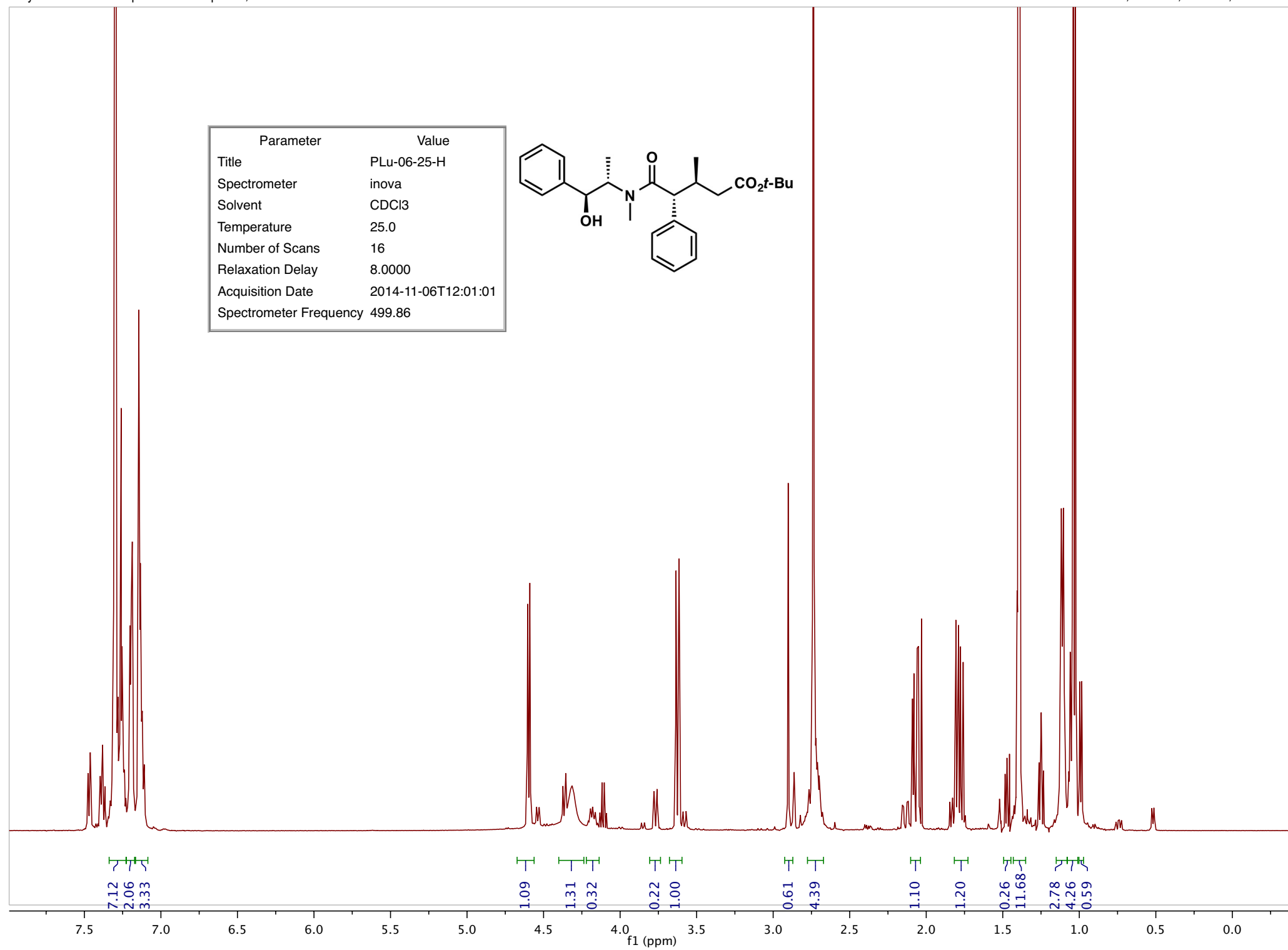


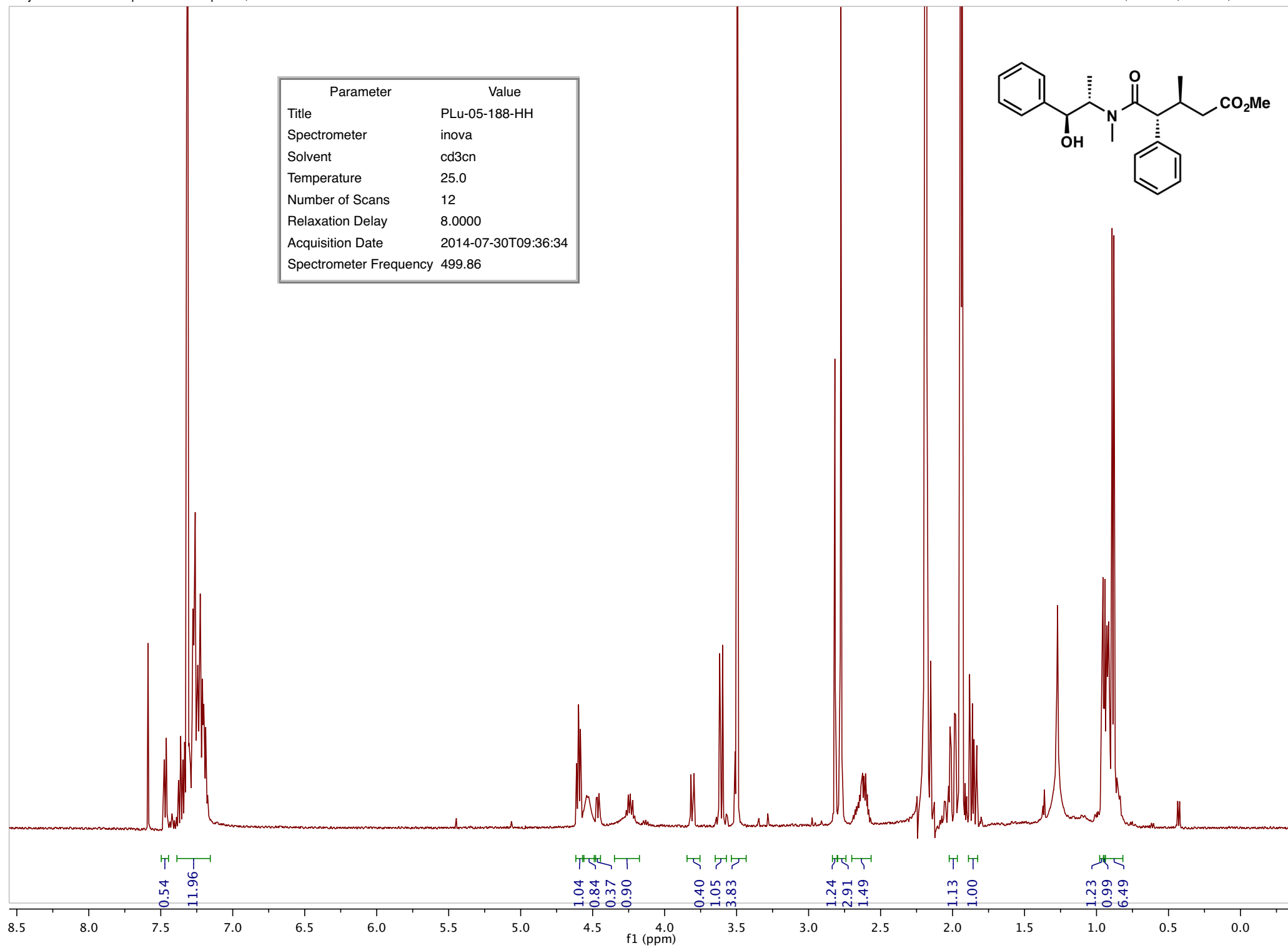


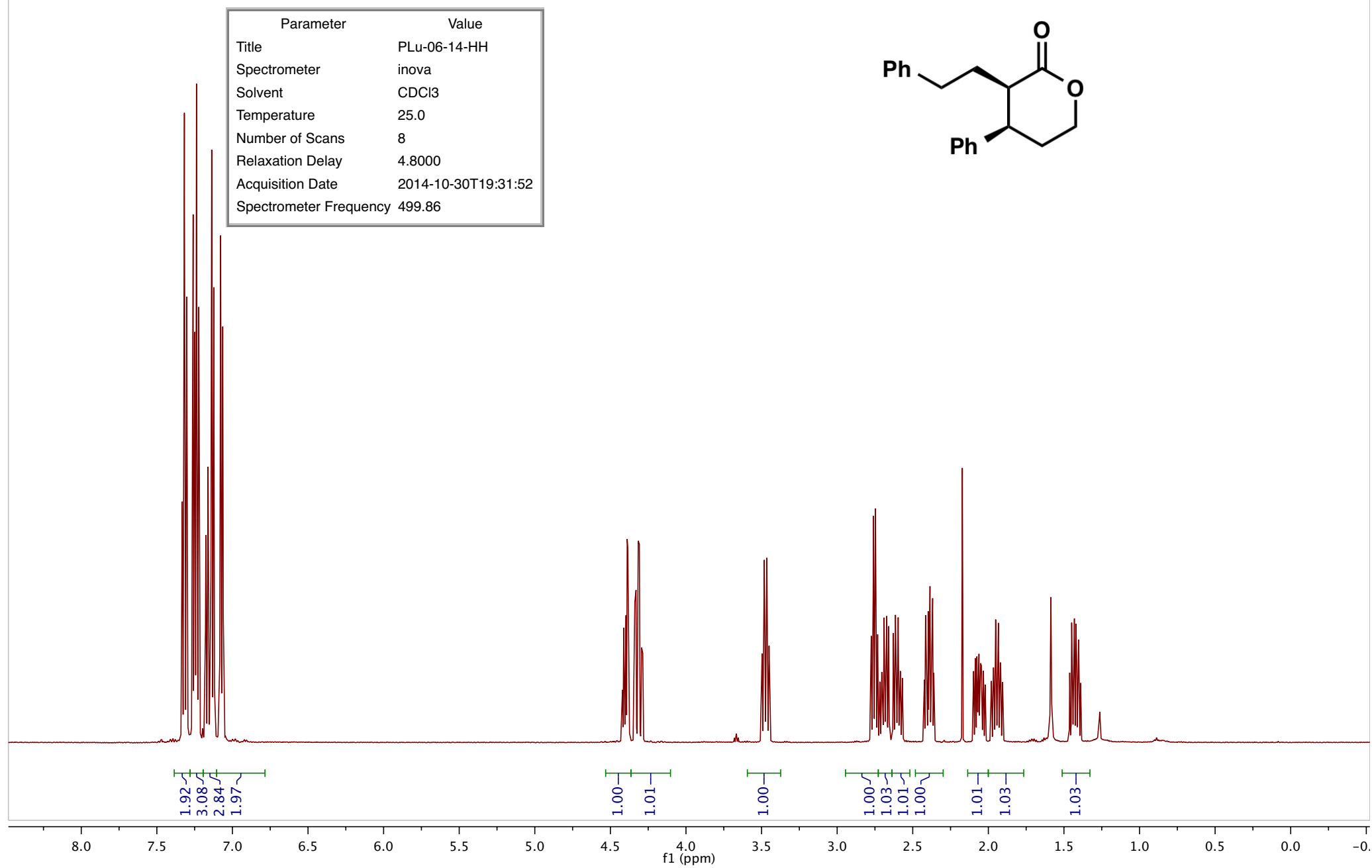


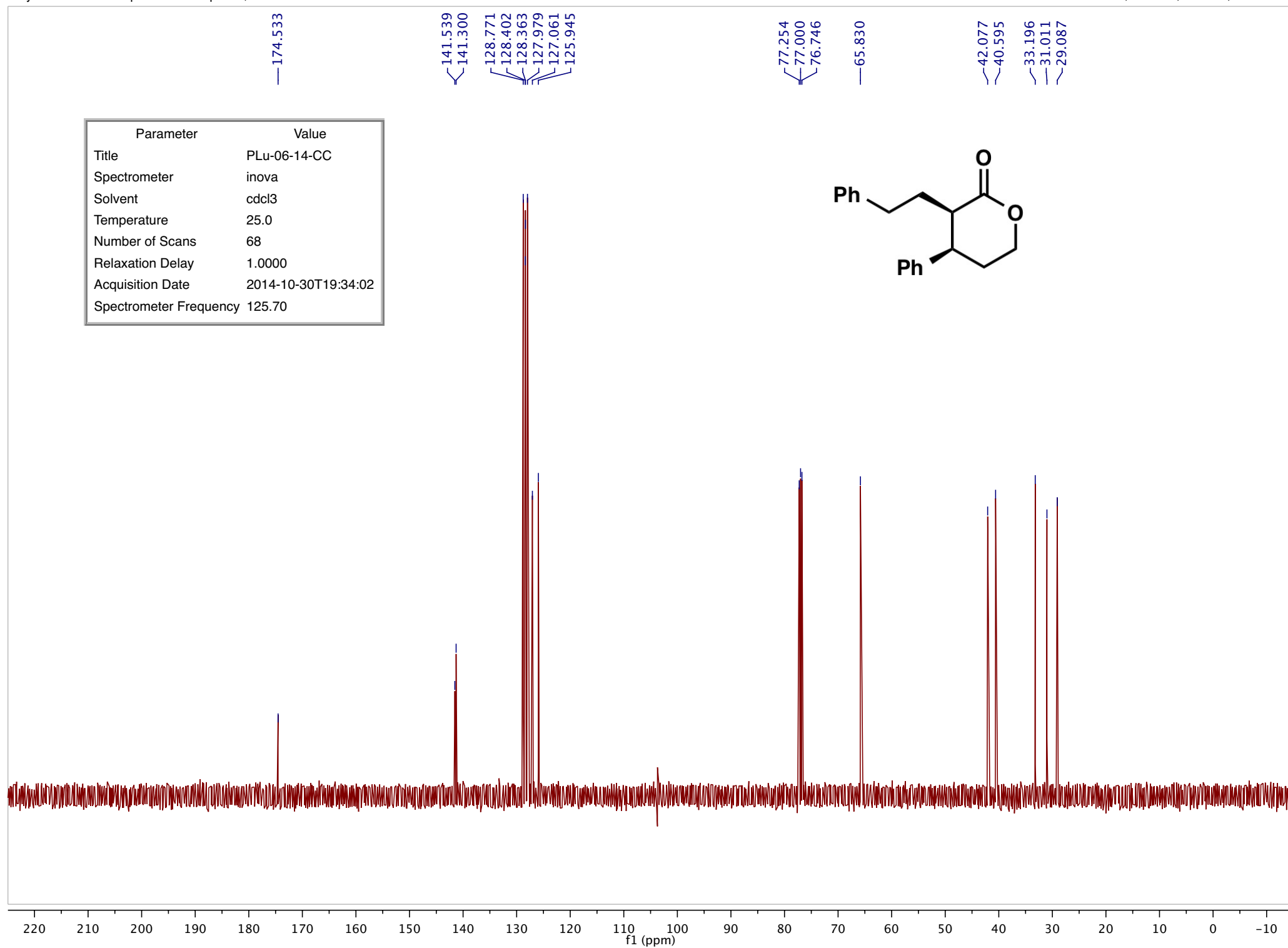


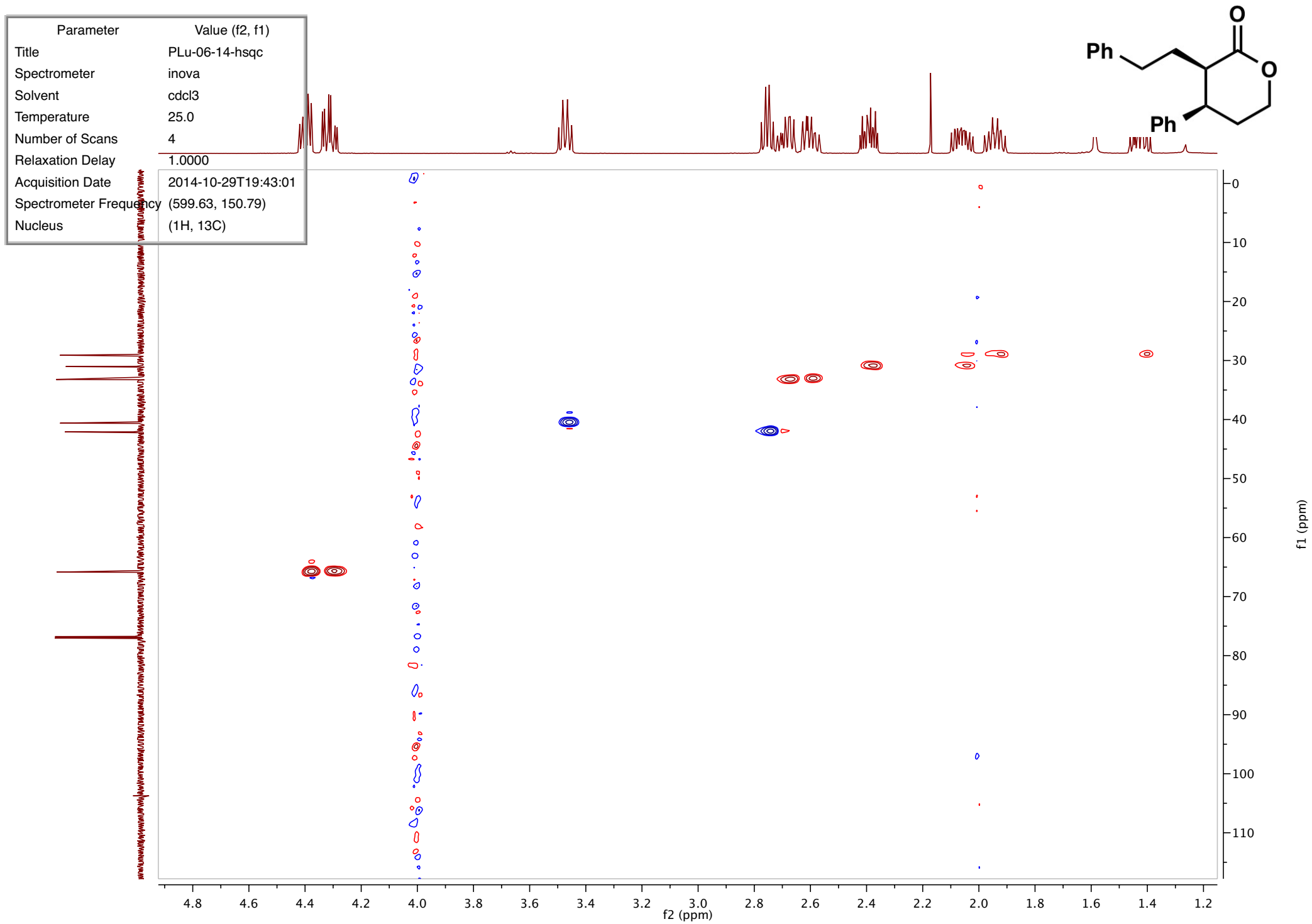


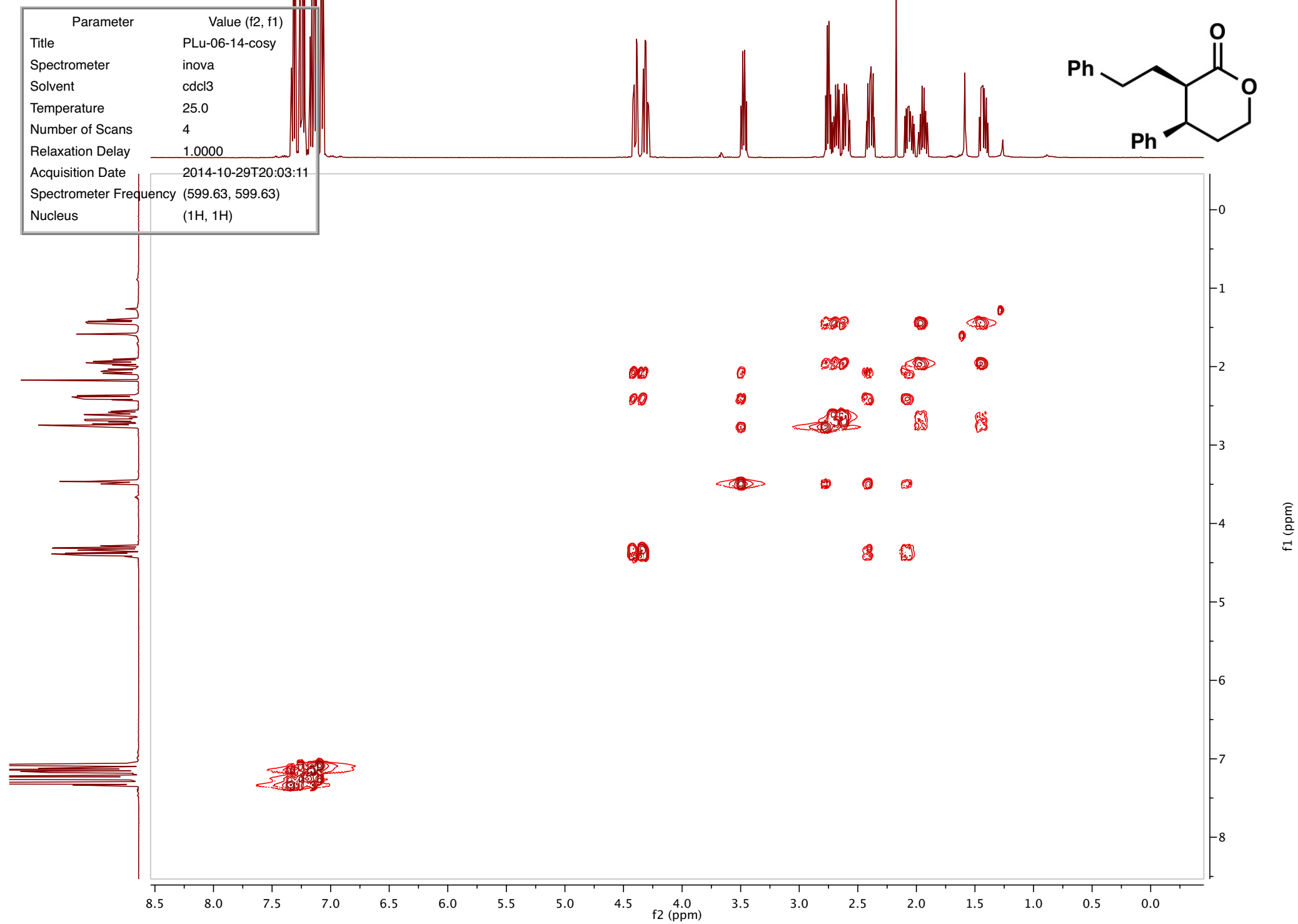




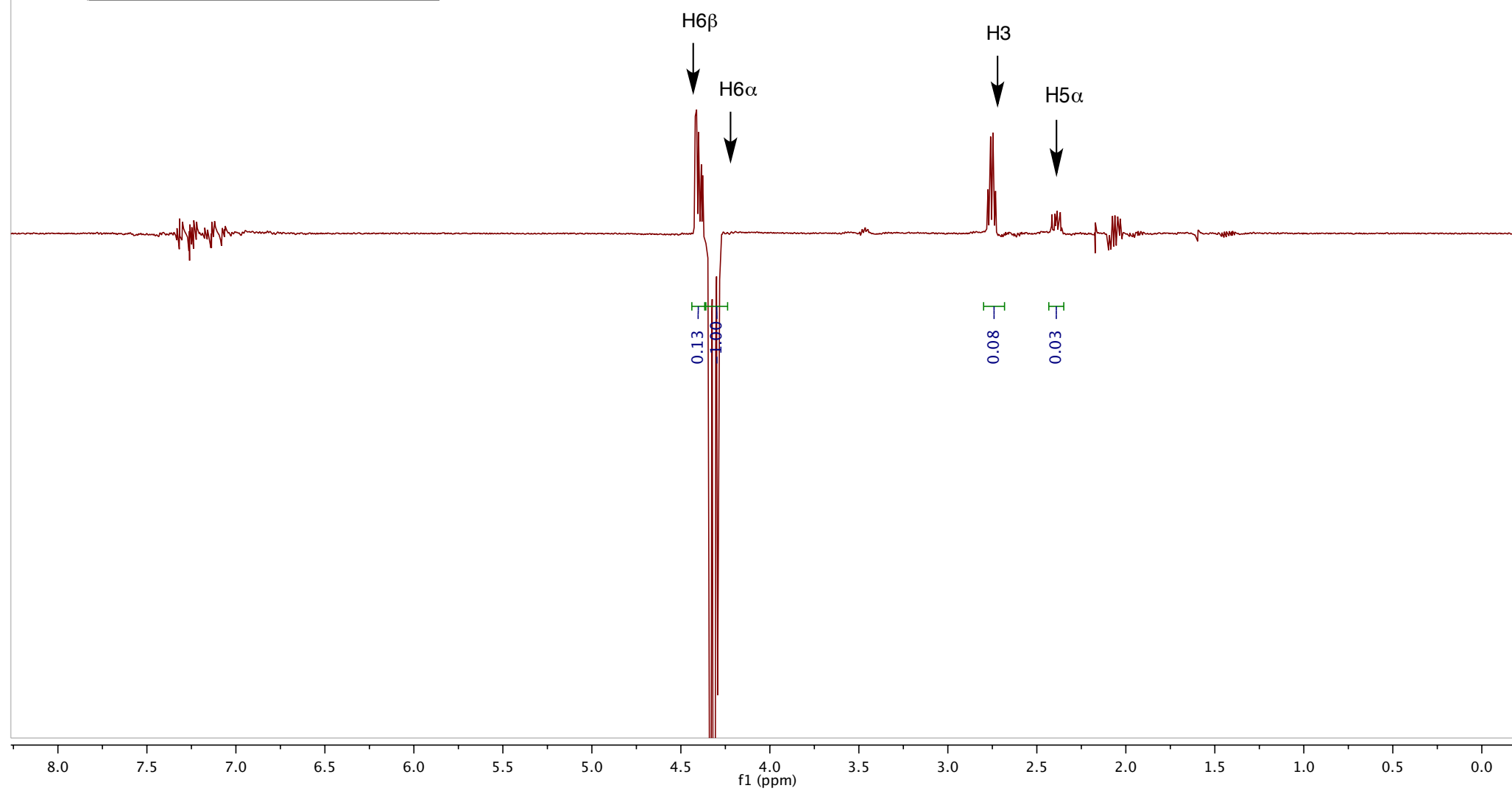
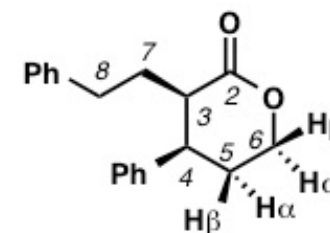




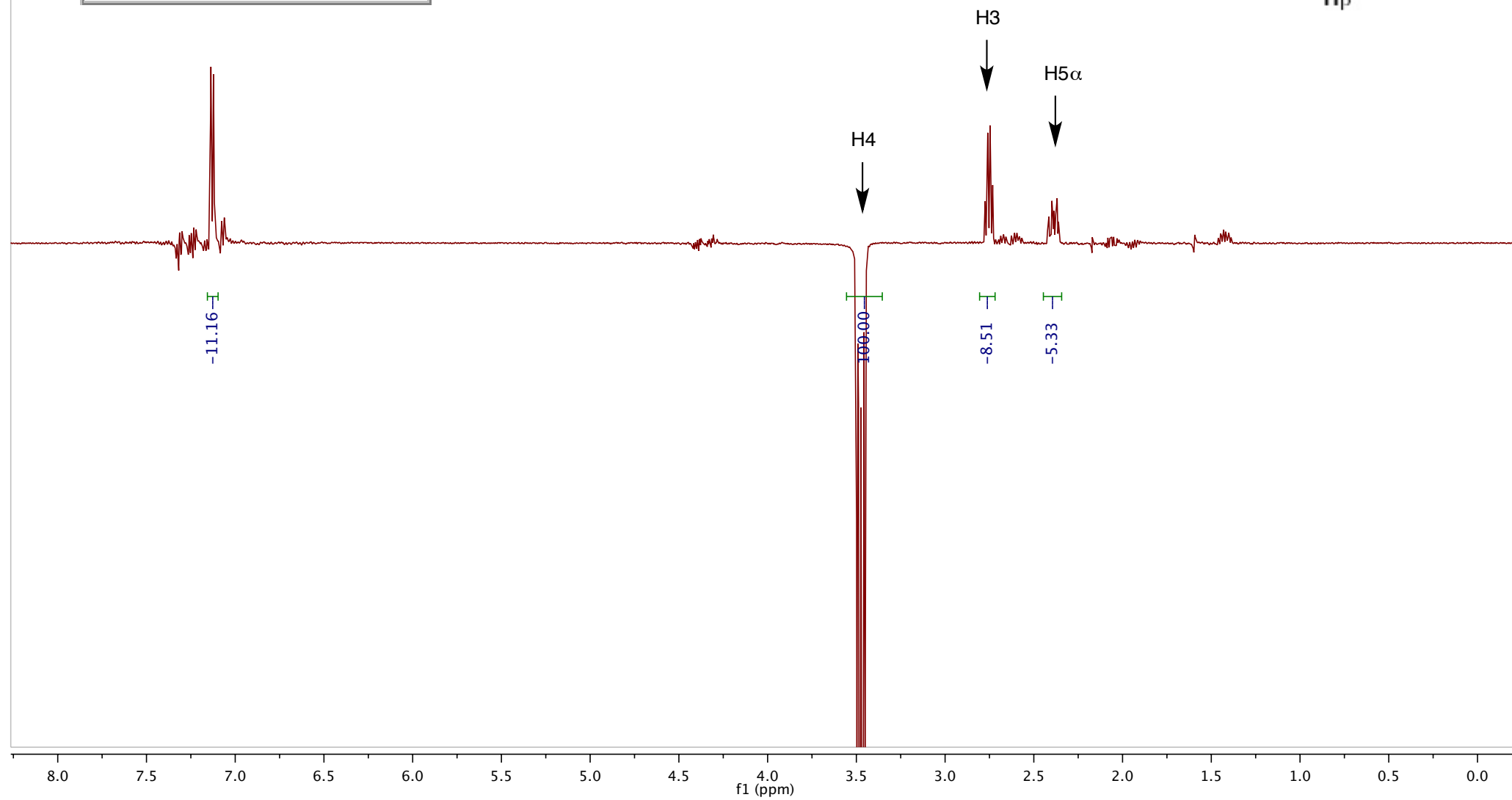
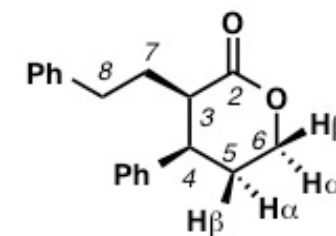




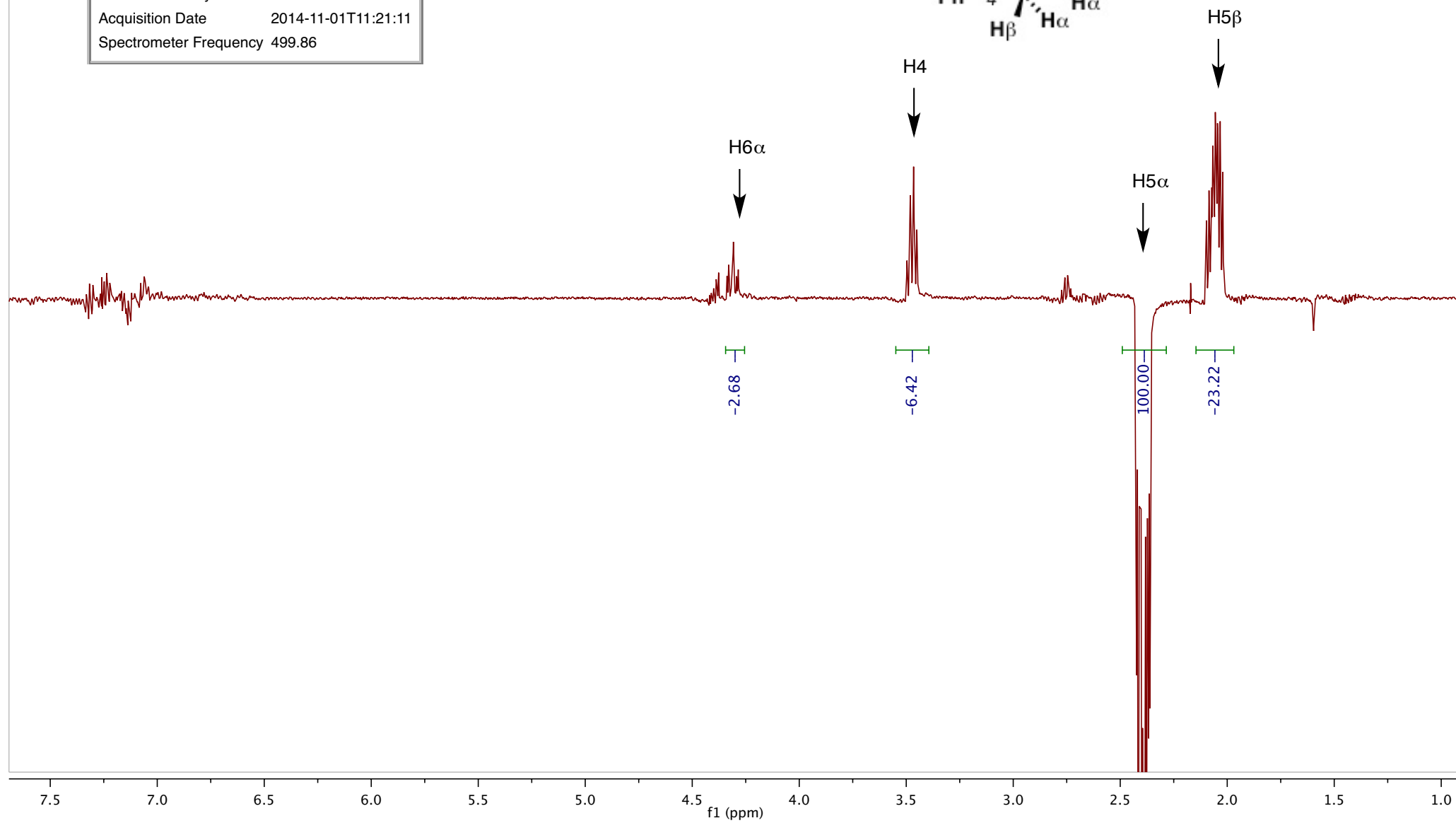
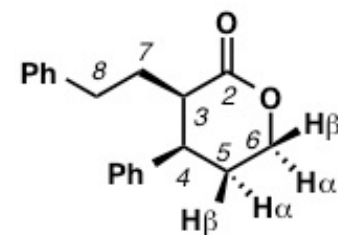
Parameter	Value
Title	PLu-06-14-cnoe2
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	64
Relaxation Delay	2.0000
Acquisition Date	2014-11-01T10:32:06
Spectrometer Frequency	499.86

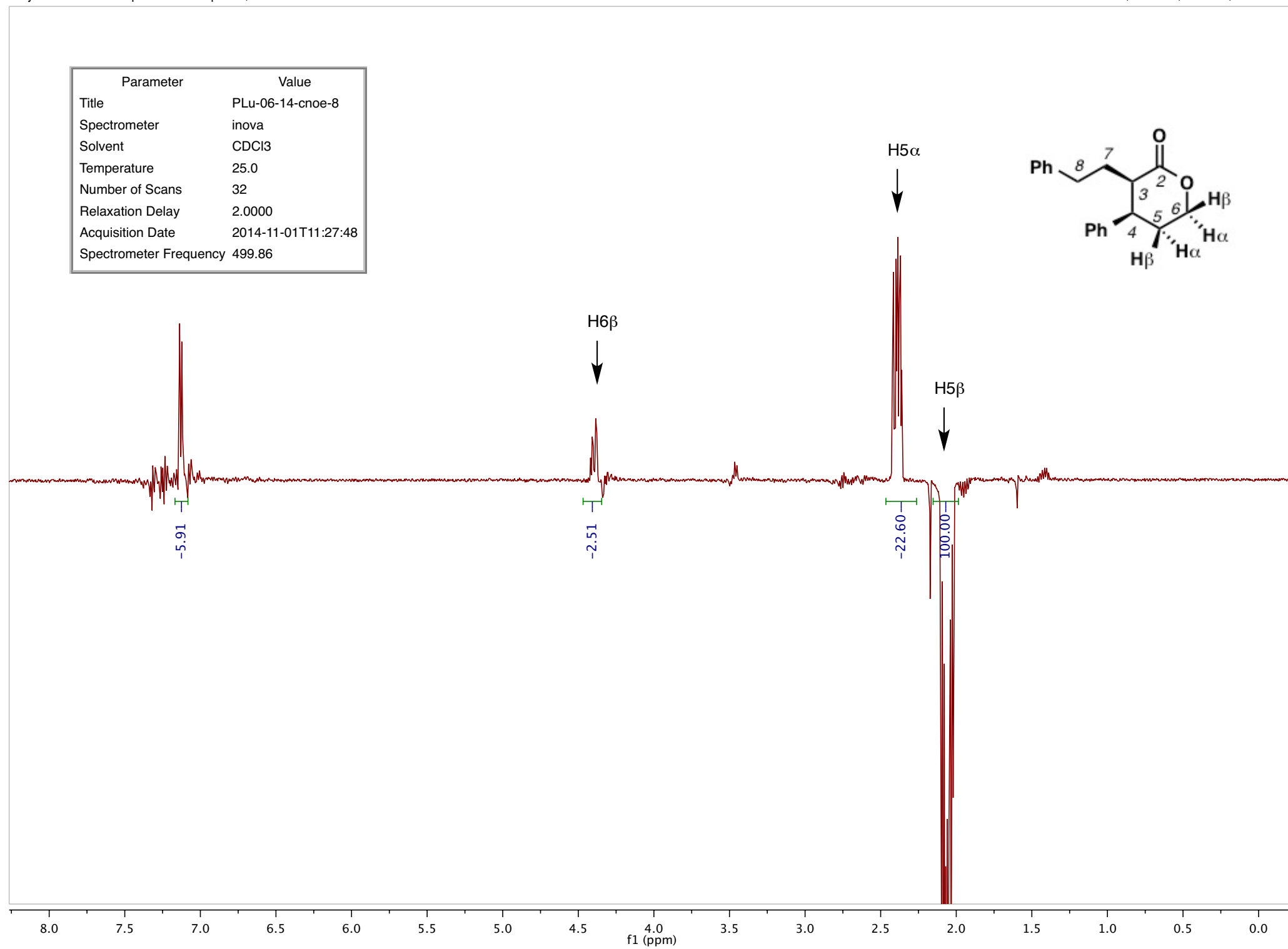


Parameter	Value
Title	PLu-06-14-cnoe-3
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	64
Relaxation Delay	2.0000
Acquisition Date	2014-11-01T10:45:53
Spectrometer Frequency	499.86

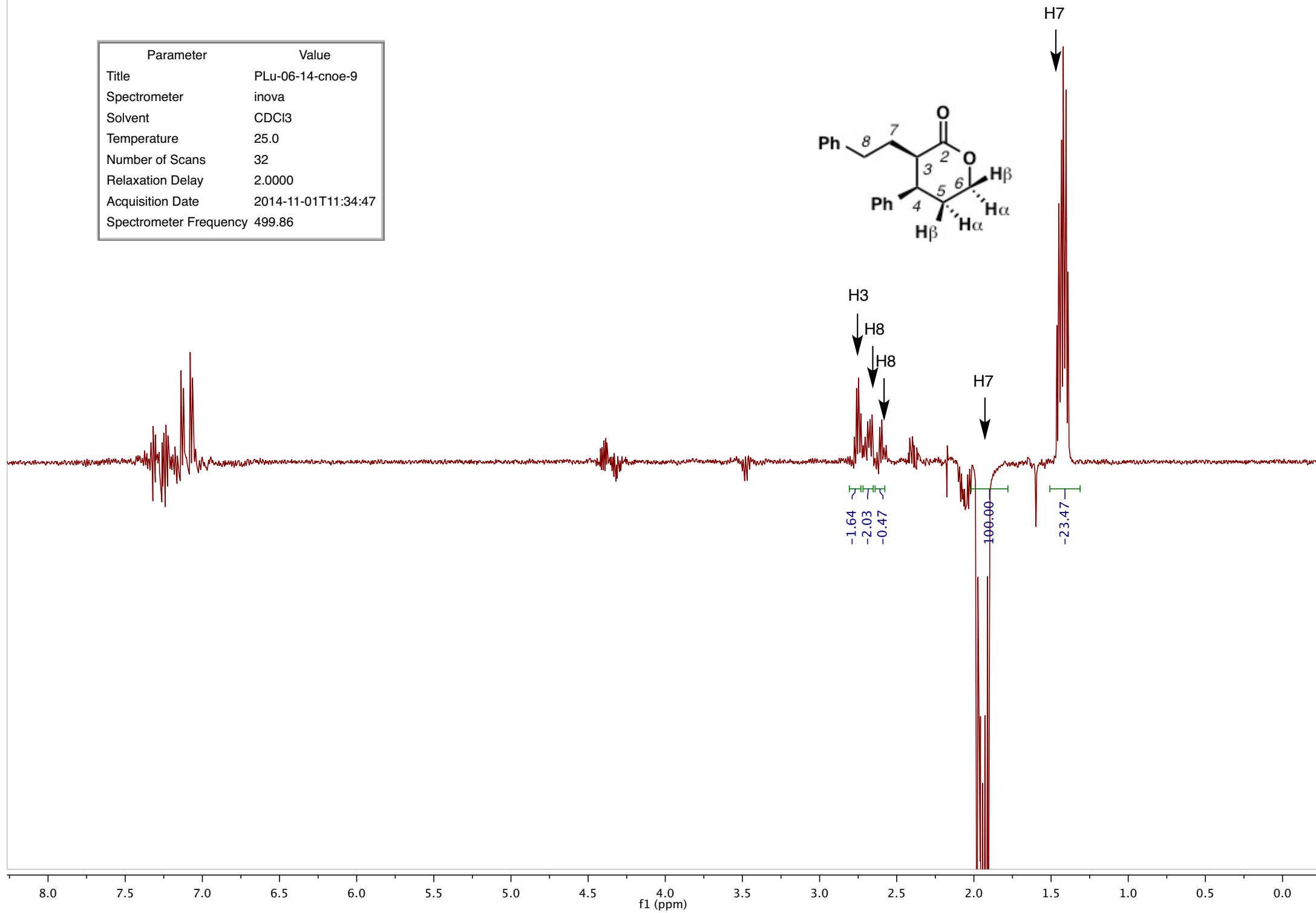
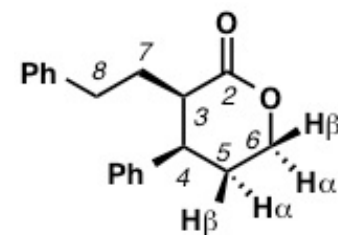


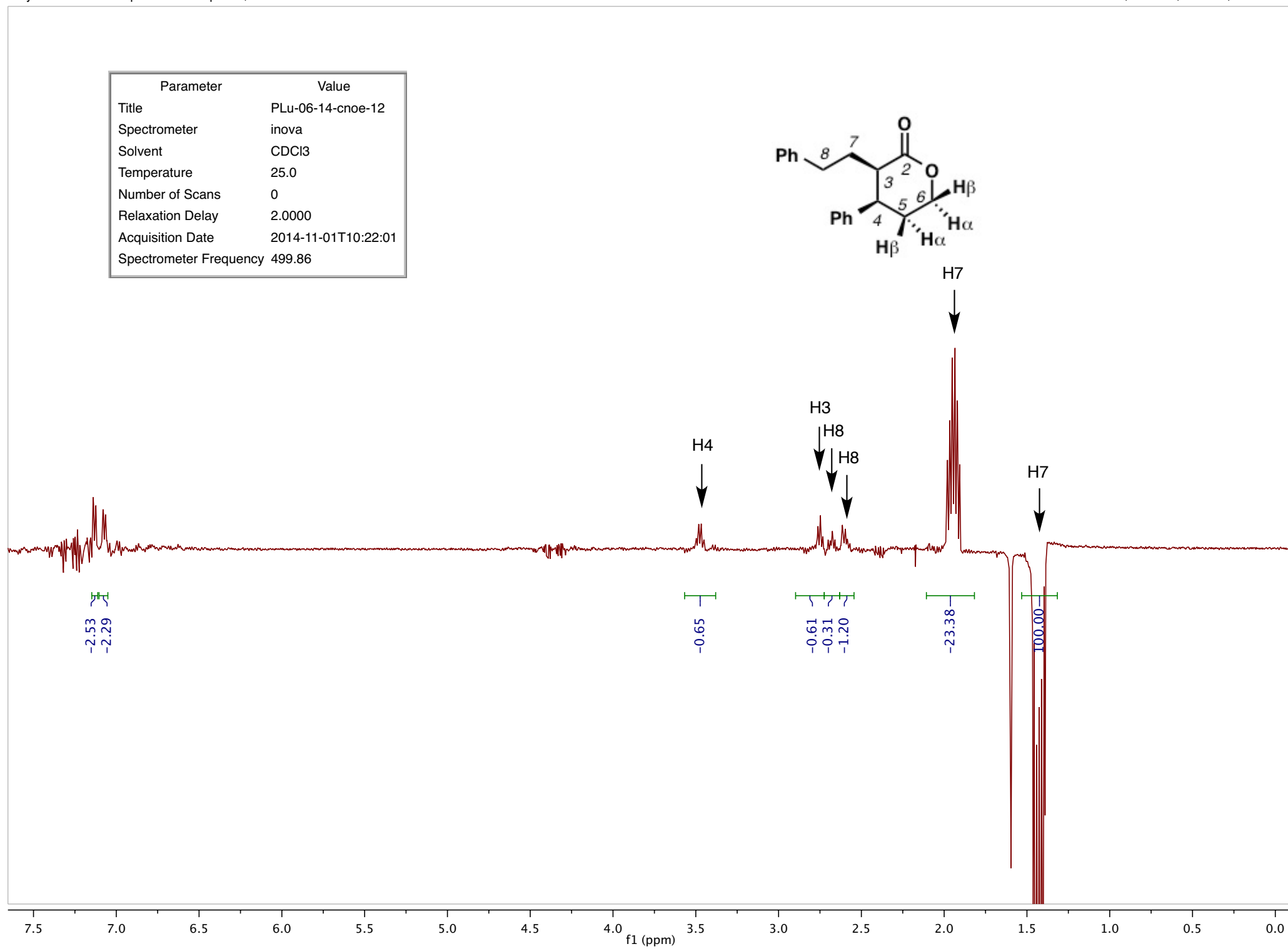
Parameter	Value
Title	PLu-06-14-cnoe-7
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	32
Relaxation Delay	2.0000
Acquisition Date	2014-11-01T11:21:11
Spectrometer Frequency	499.86



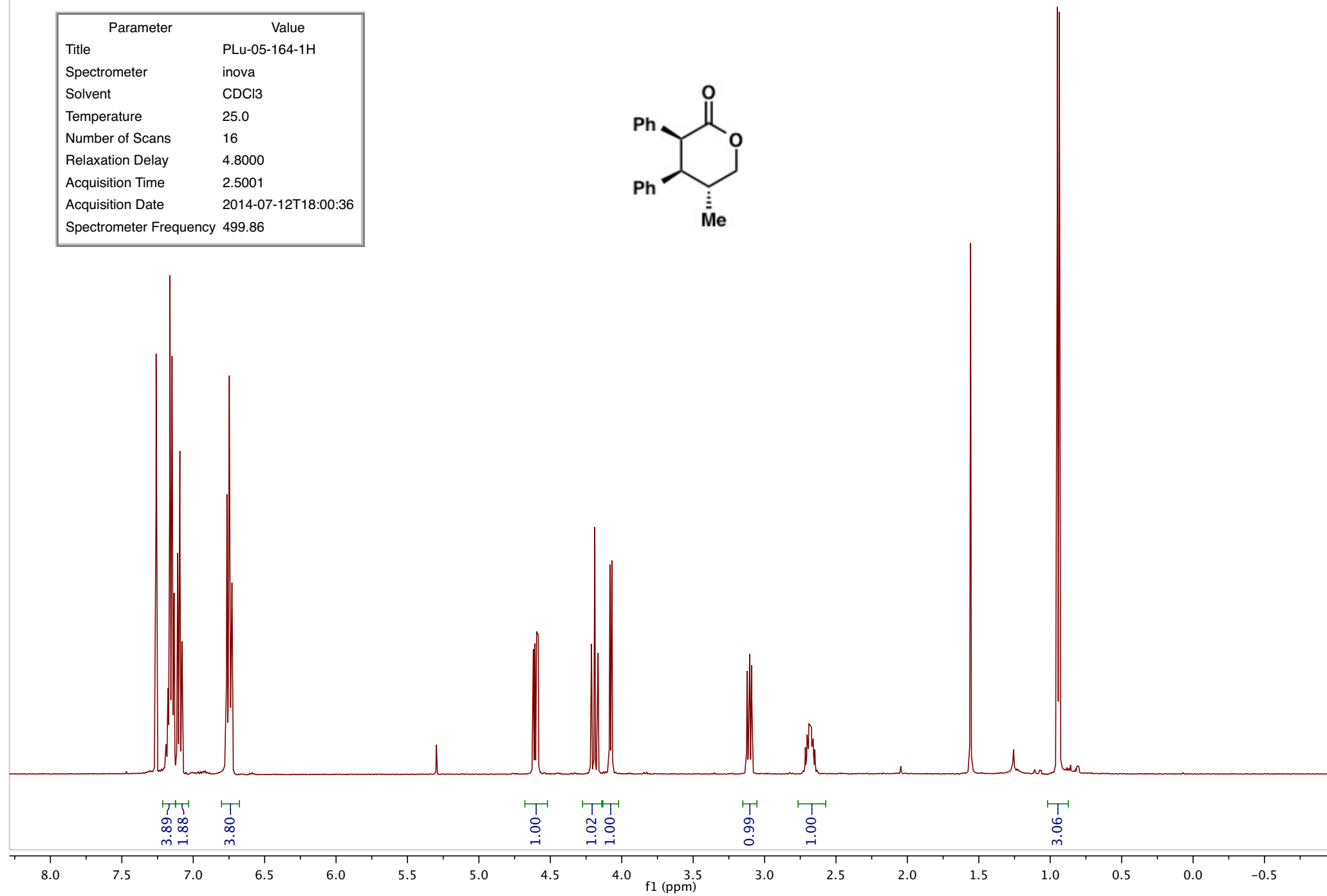
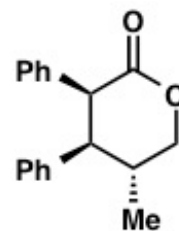


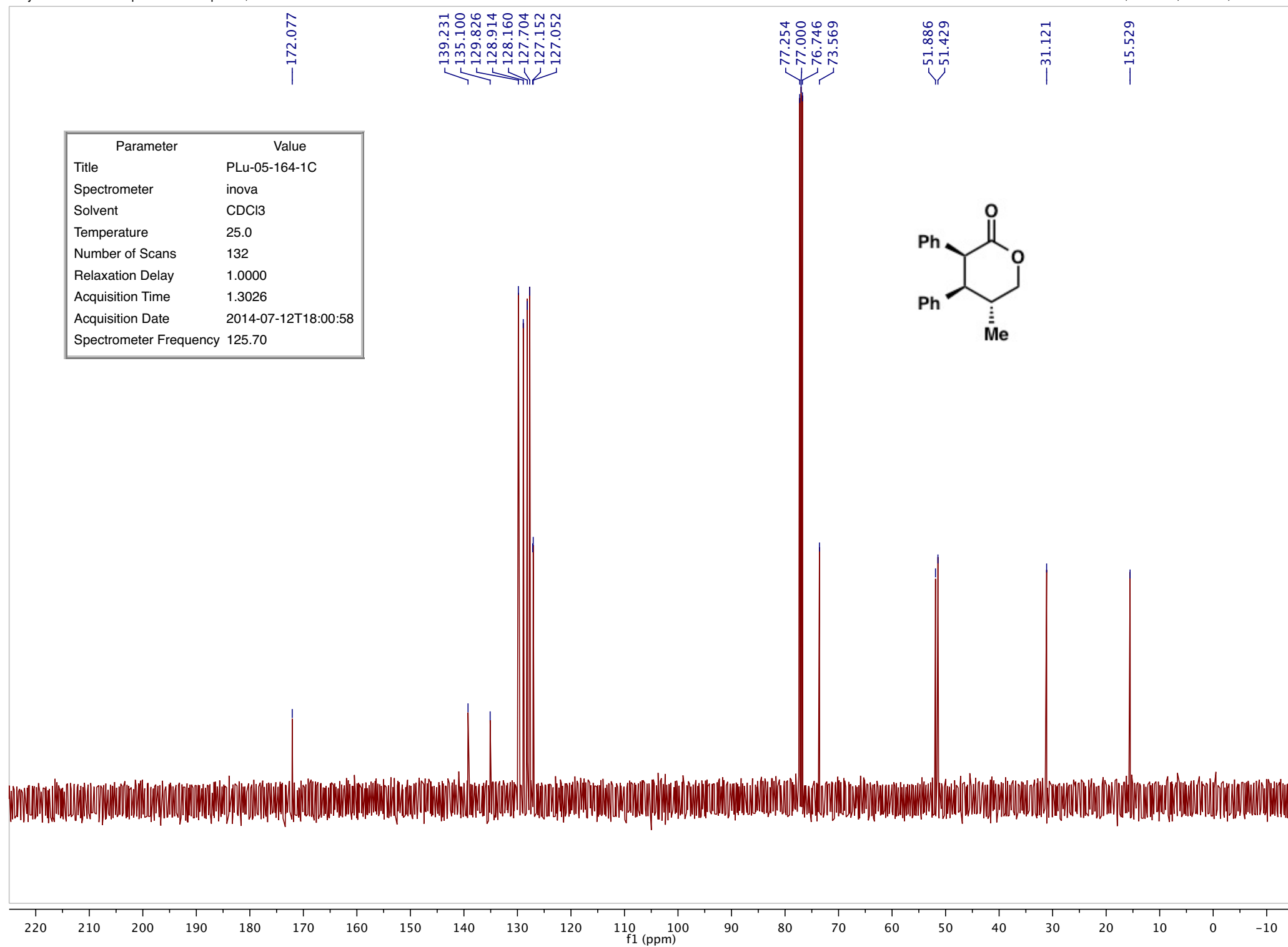
Parameter	Value
Title	PLu-06-14-cnoe-9
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	32
Relaxation Delay	2.0000
Acquisition Date	2014-11-01T11:34:47
Spectrometer Frequency	499.86

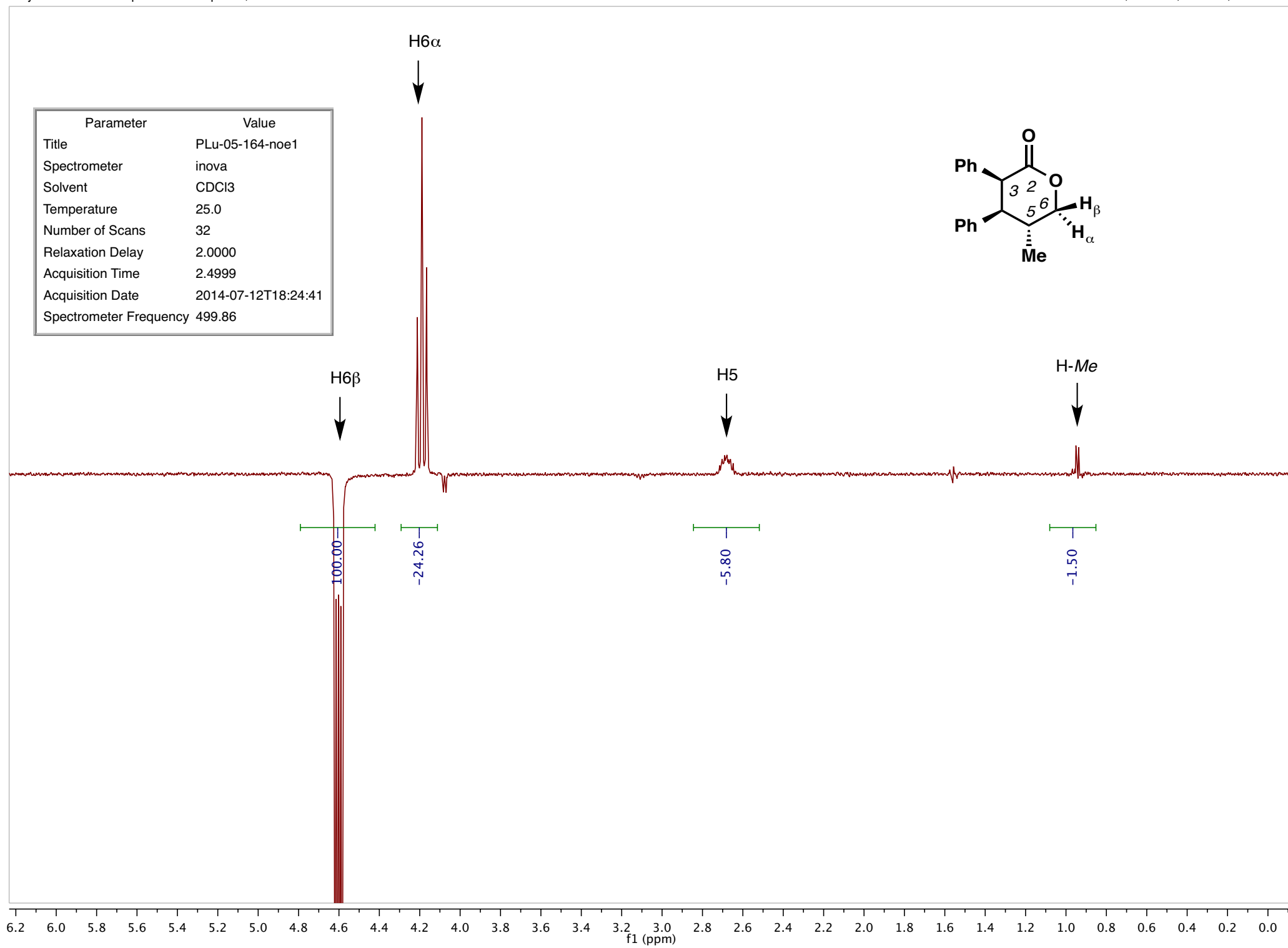


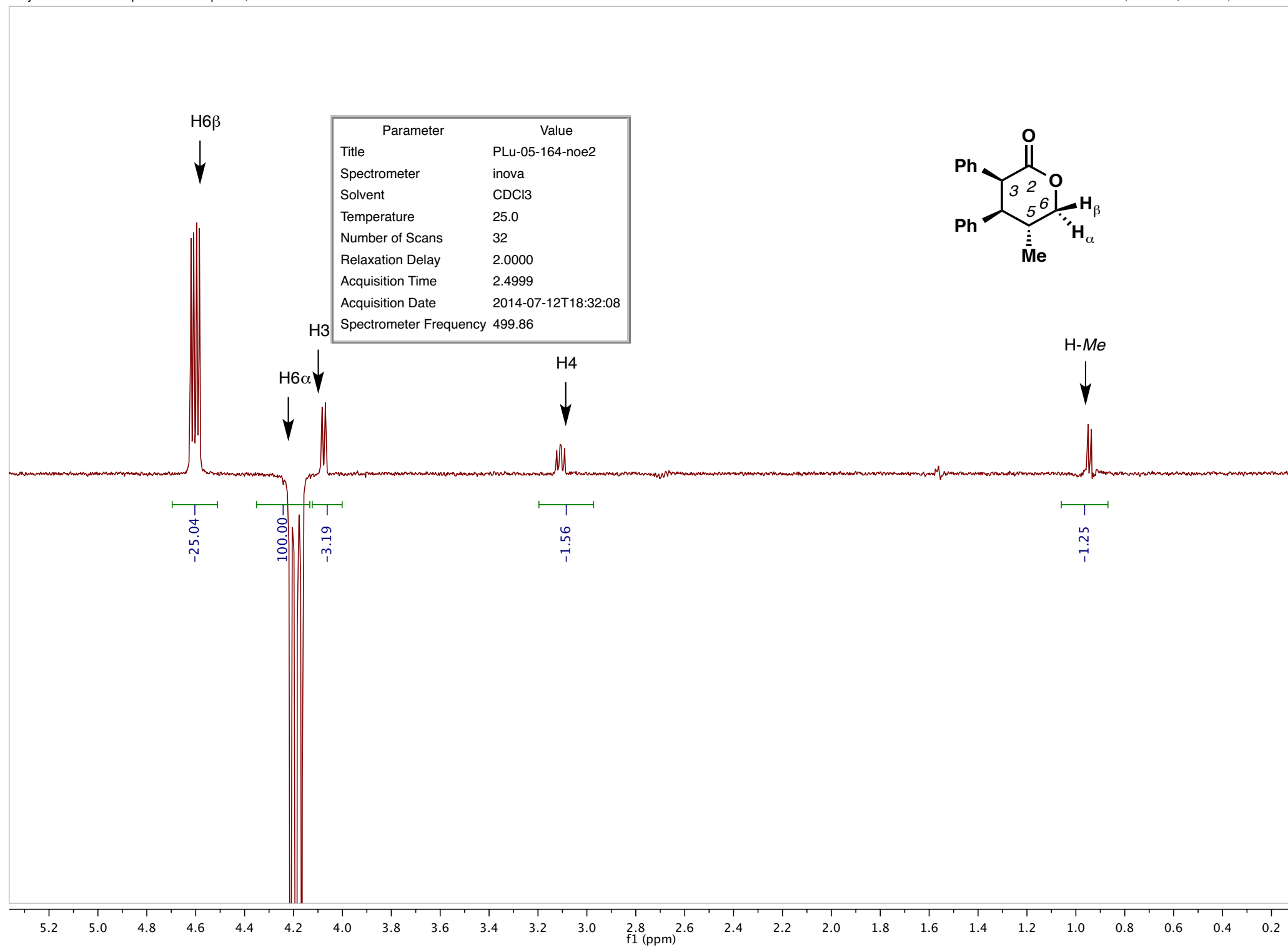


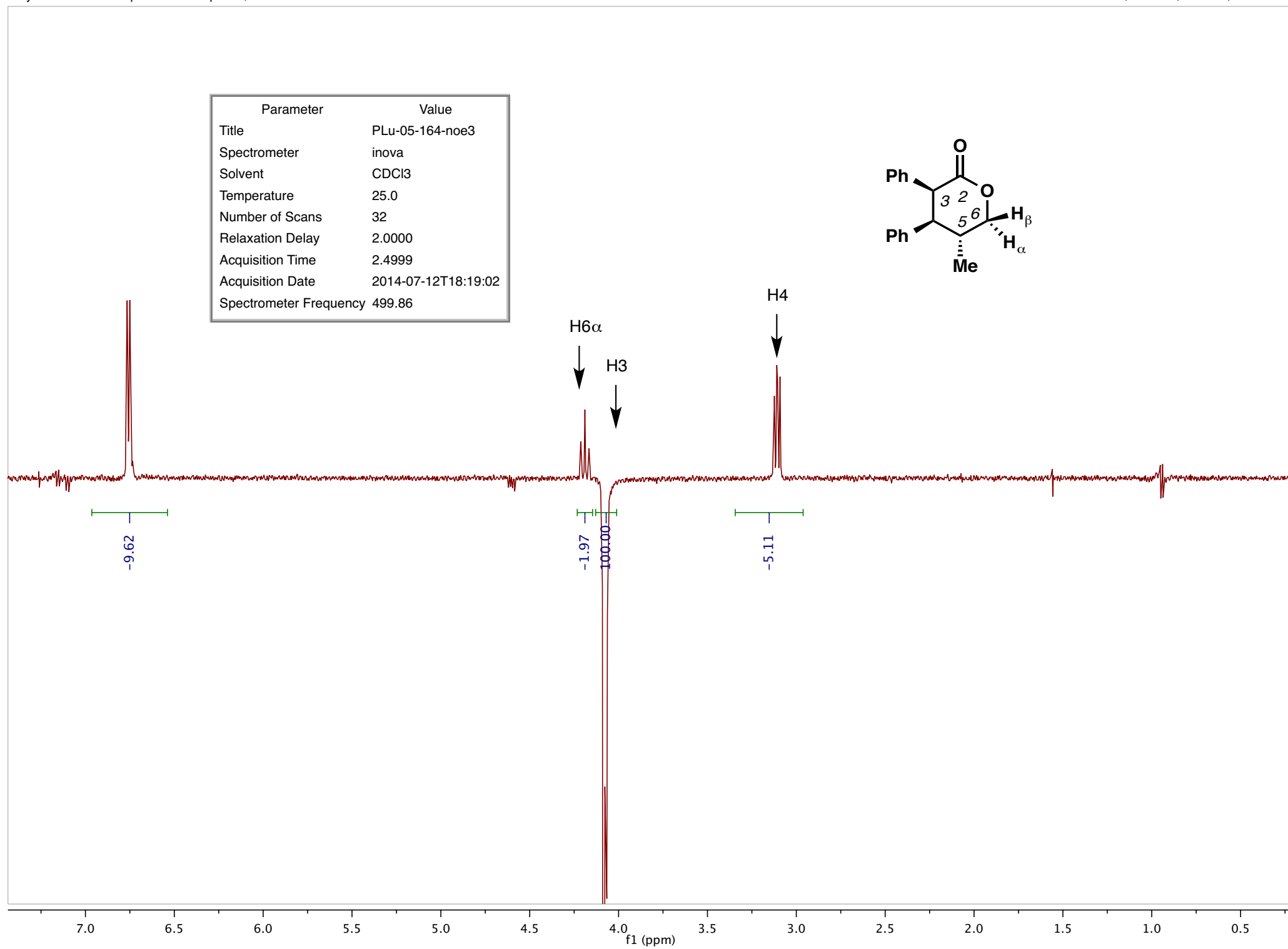
Parameter	Value
Title	PLu-05-164-1H
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	16
Relaxation Delay	4.8000
Acquisition Time	2.5001
Acquisition Date	2014-07-12T18:00:36
Spectrometer Frequency	499.86

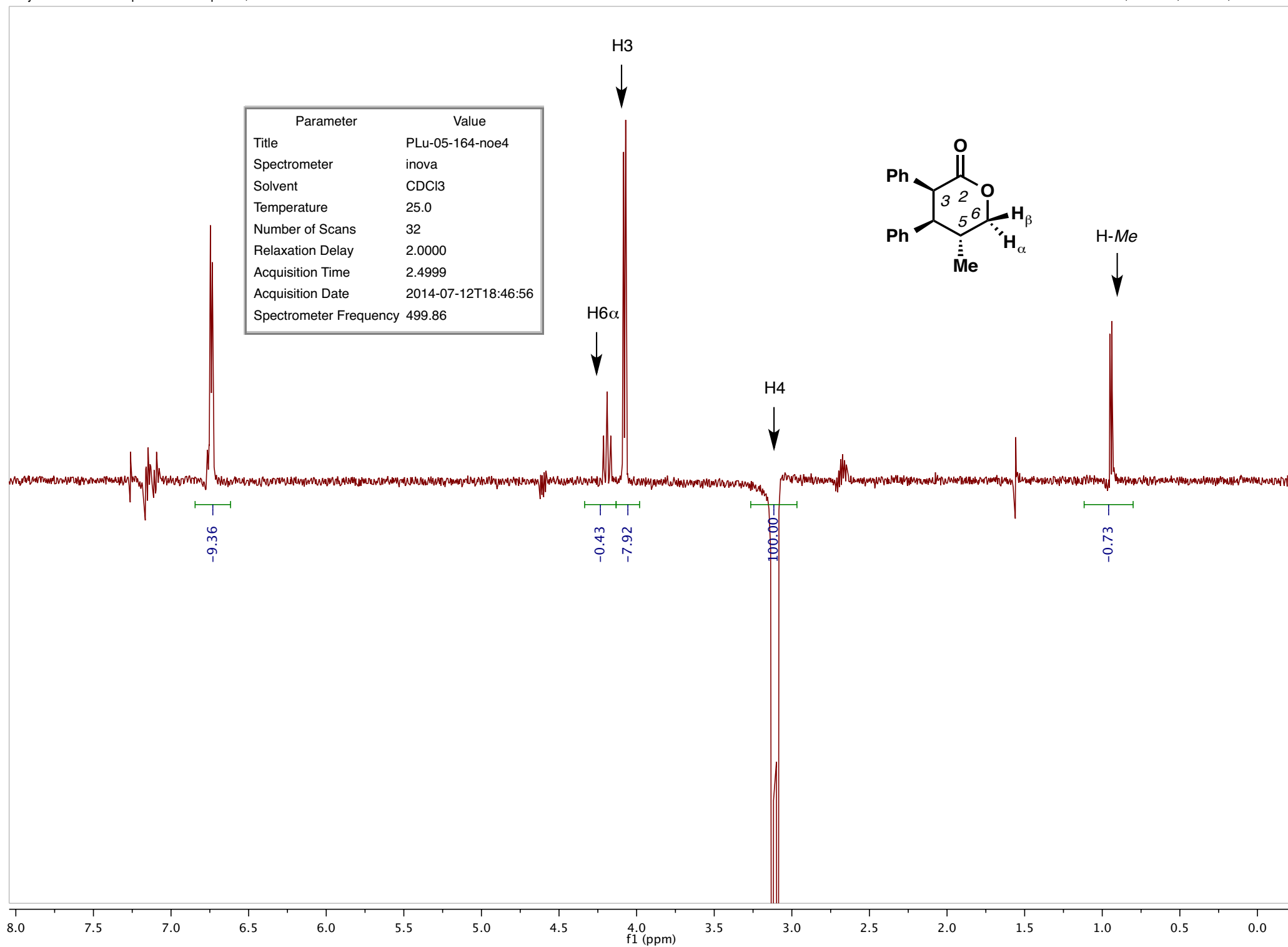


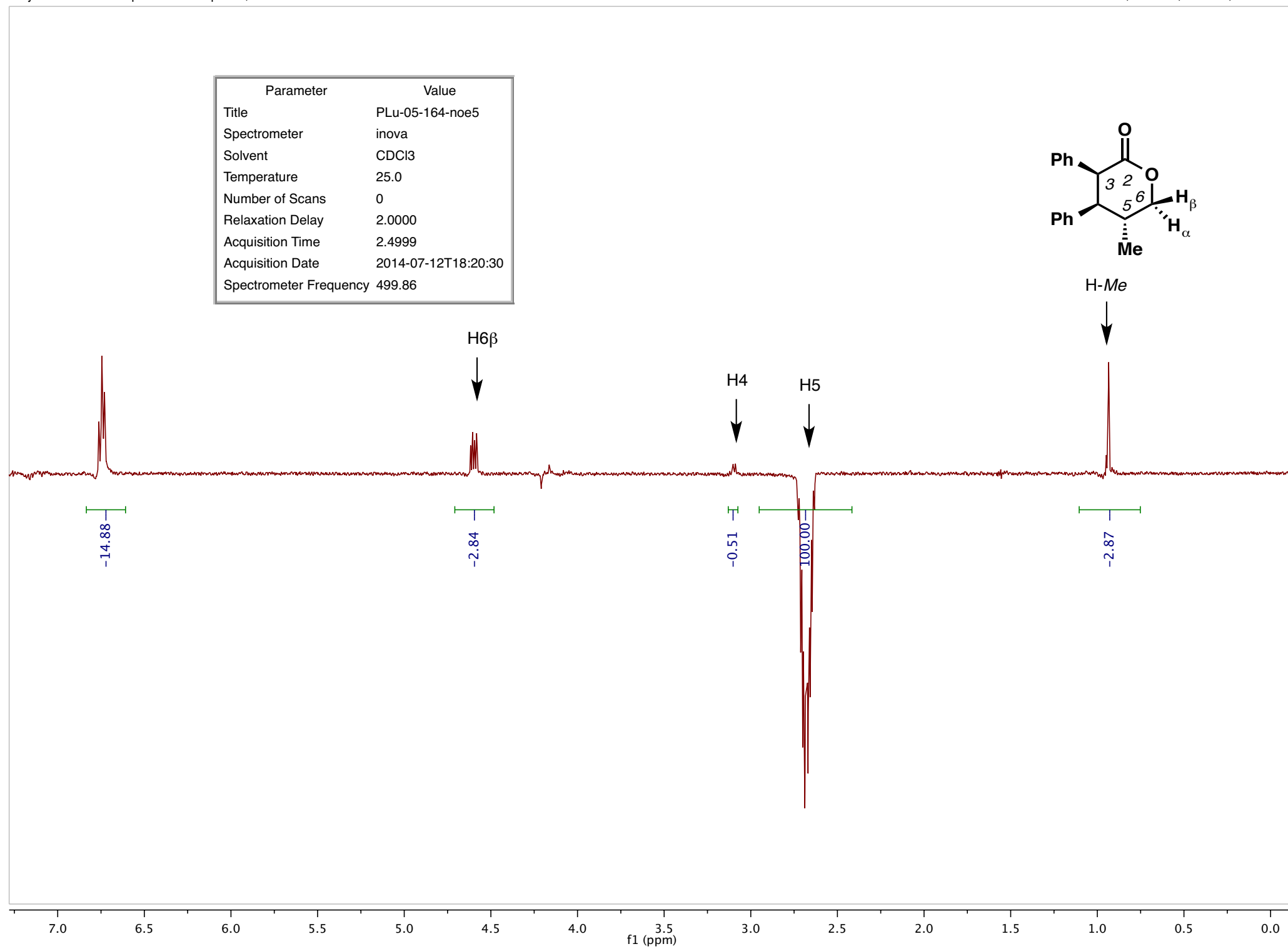


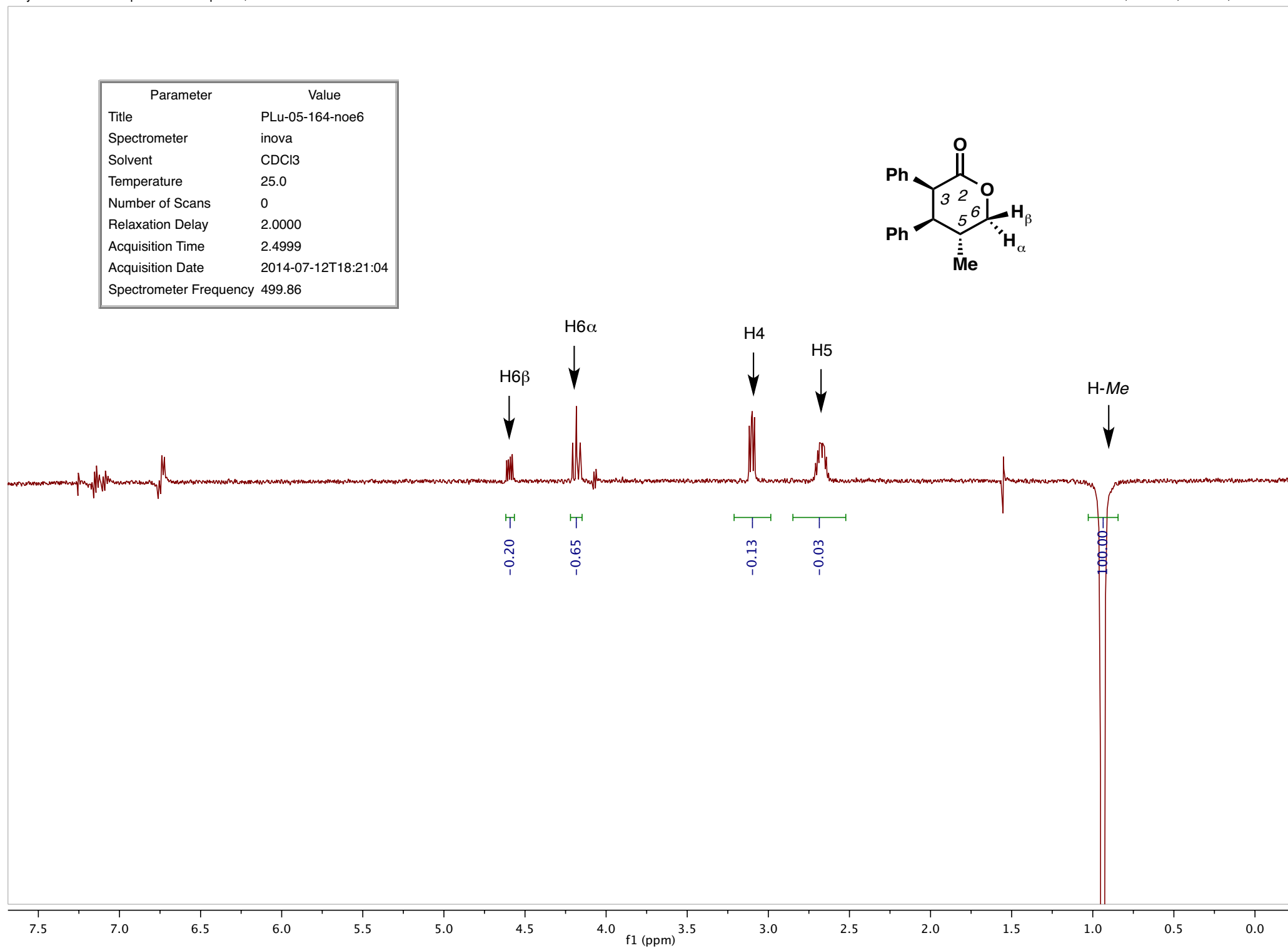


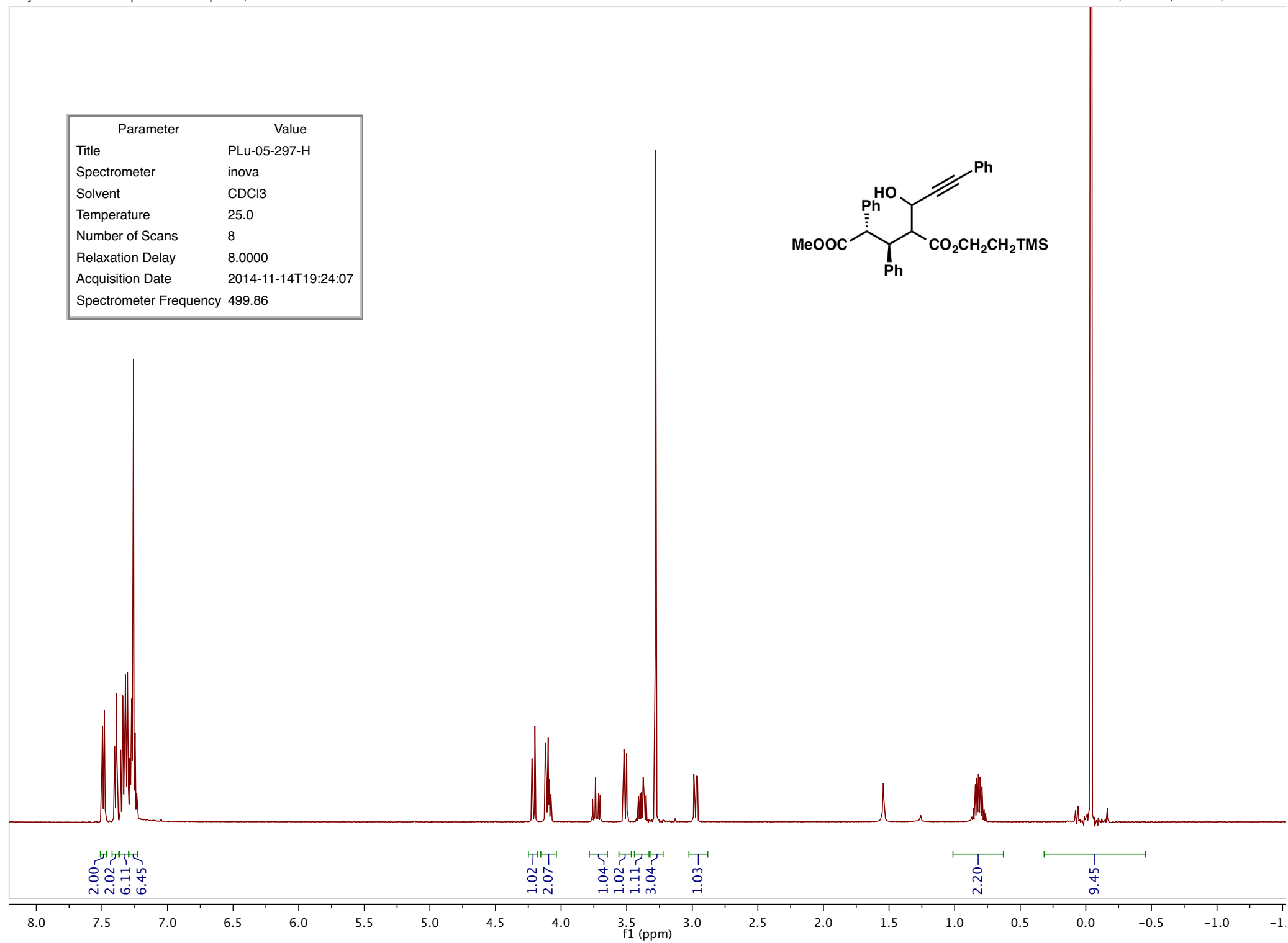


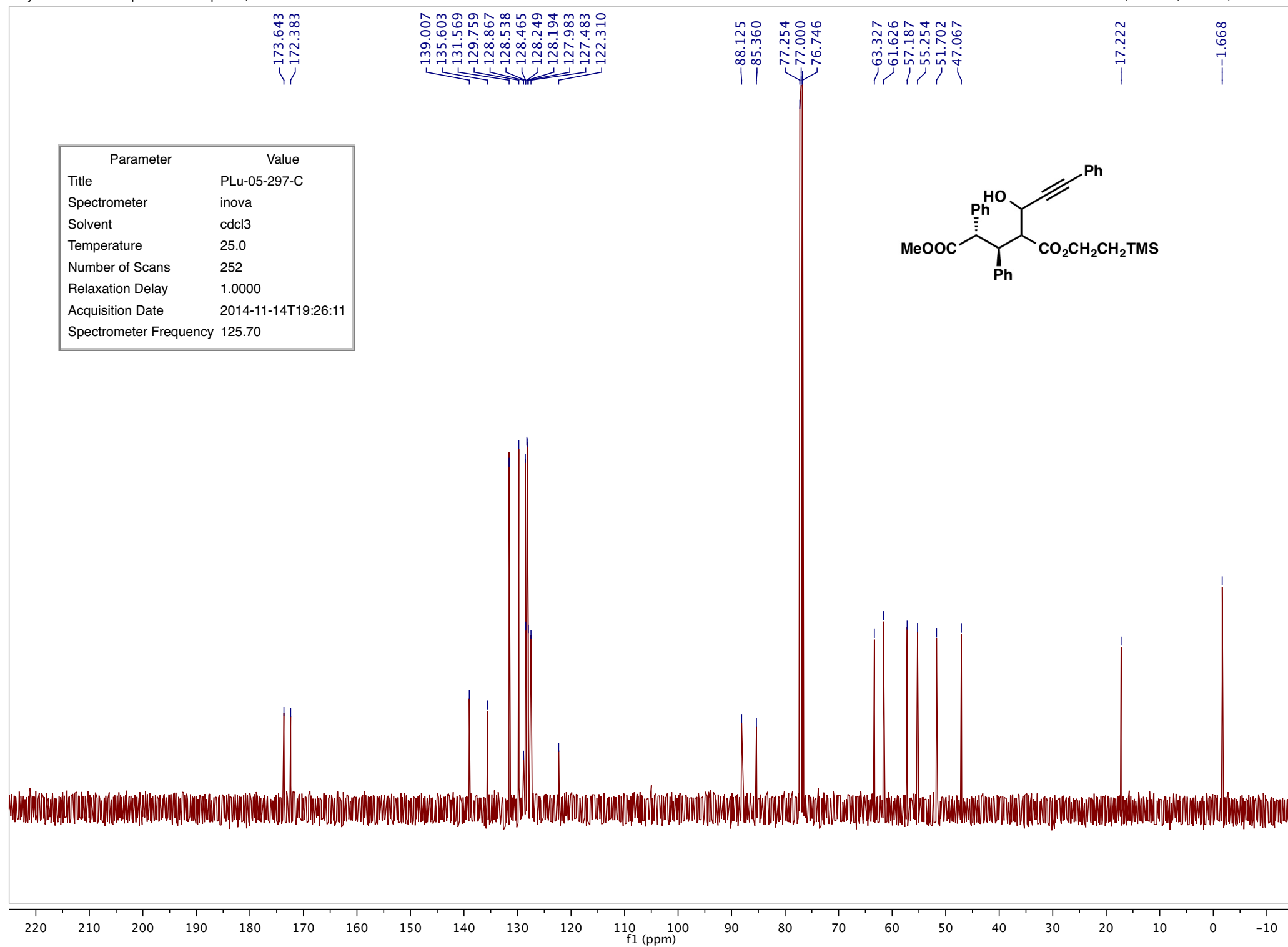




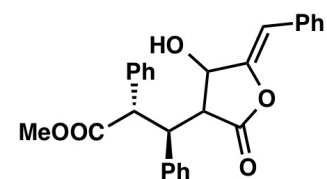
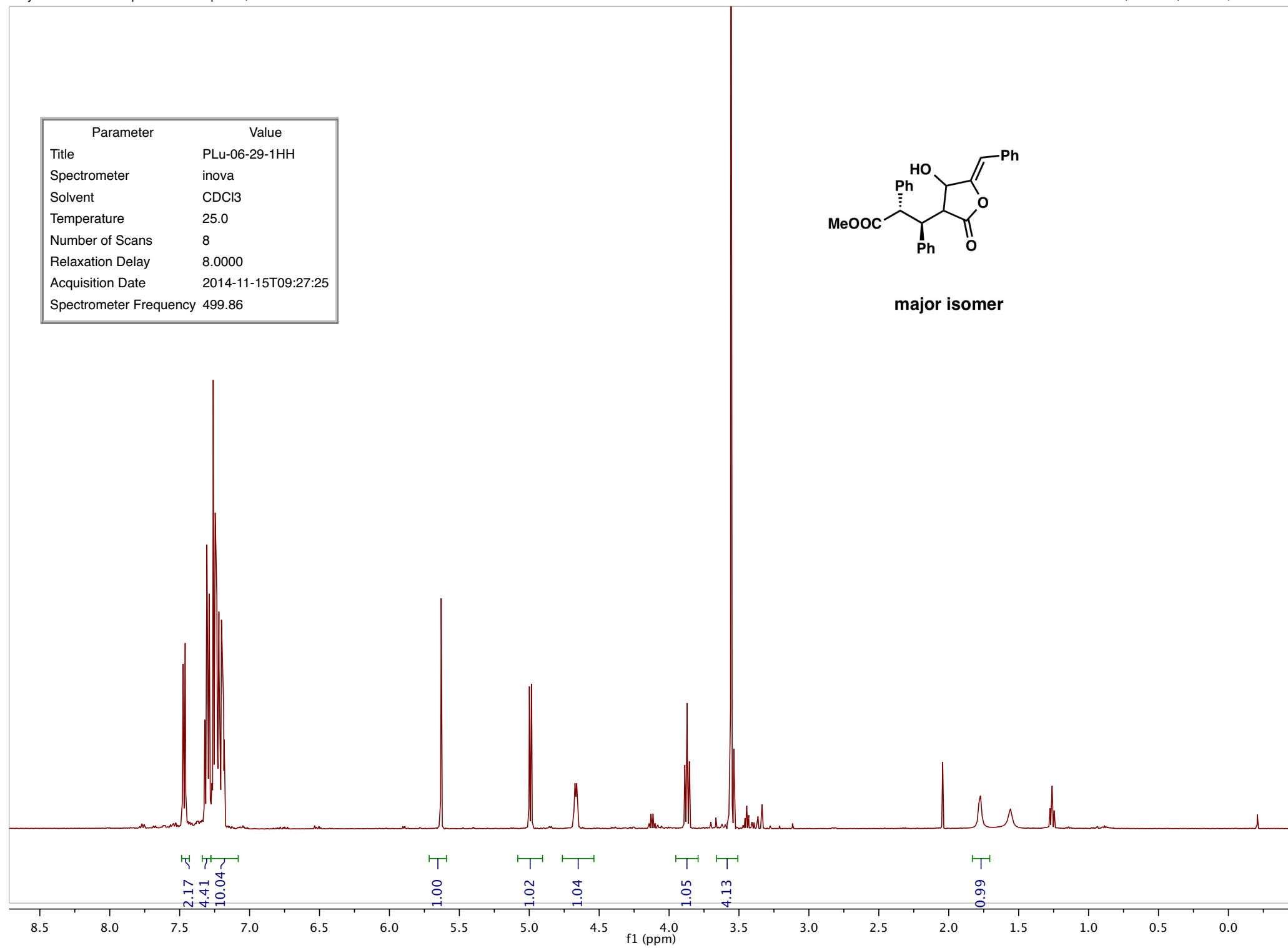


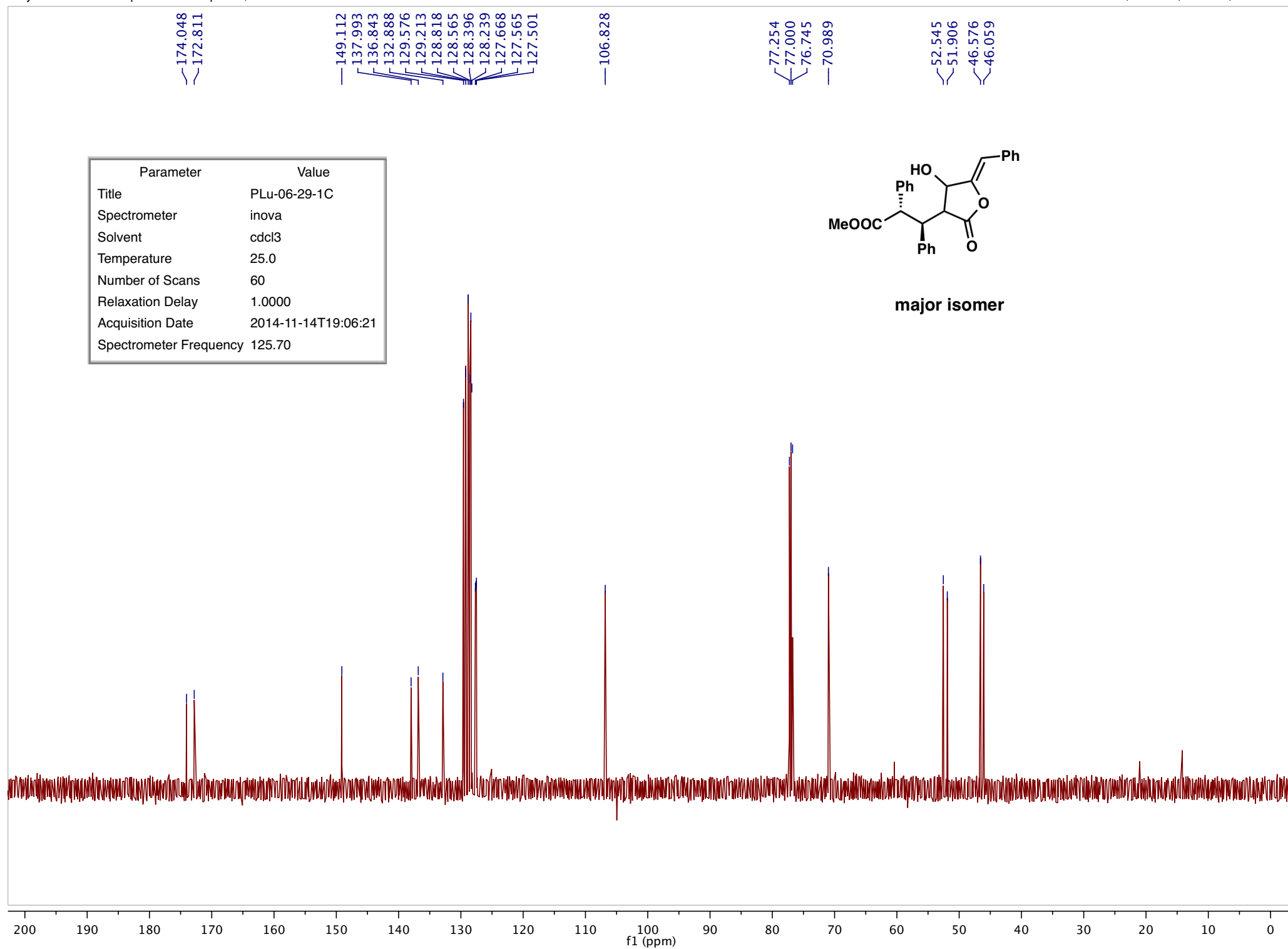


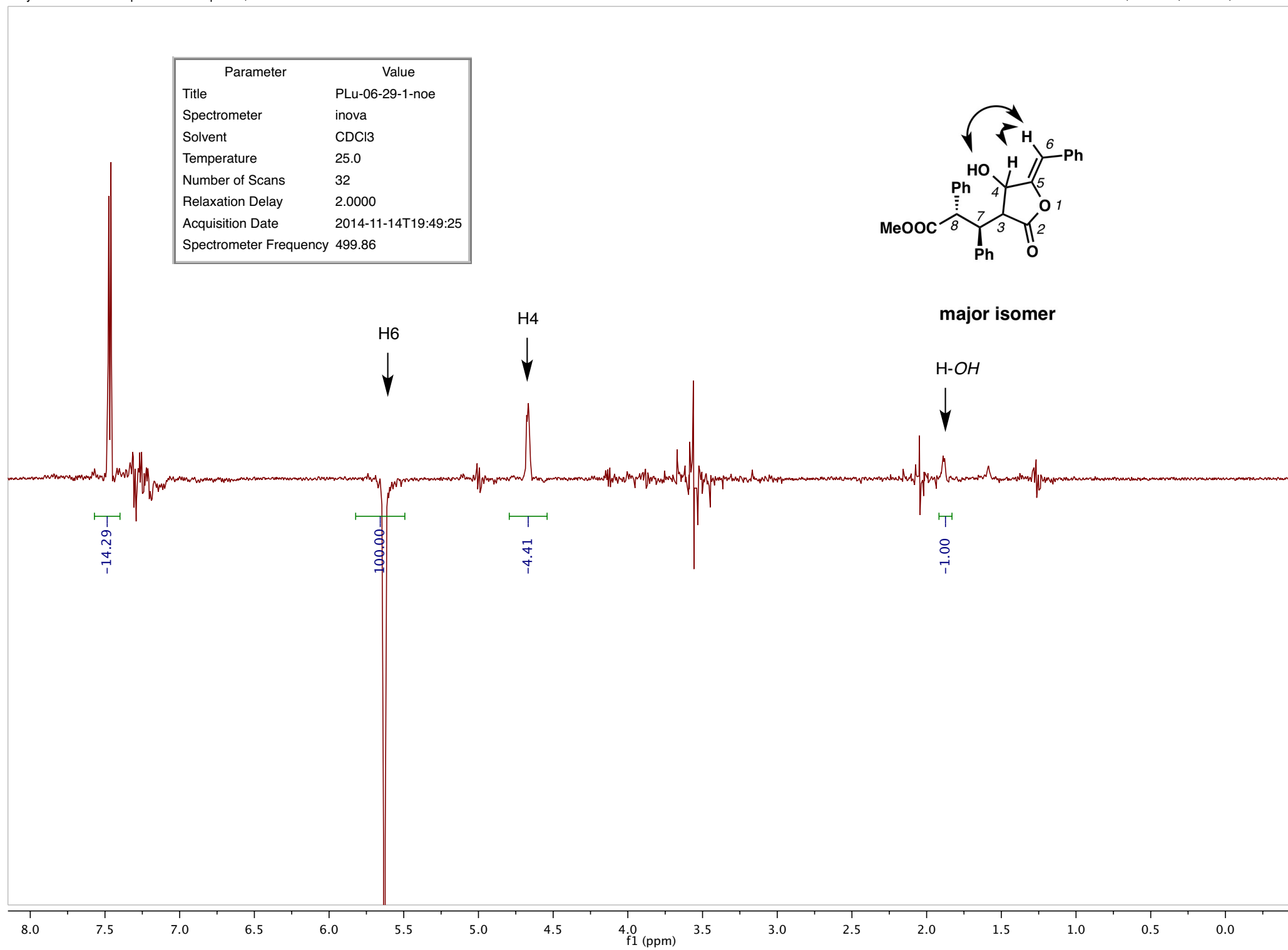


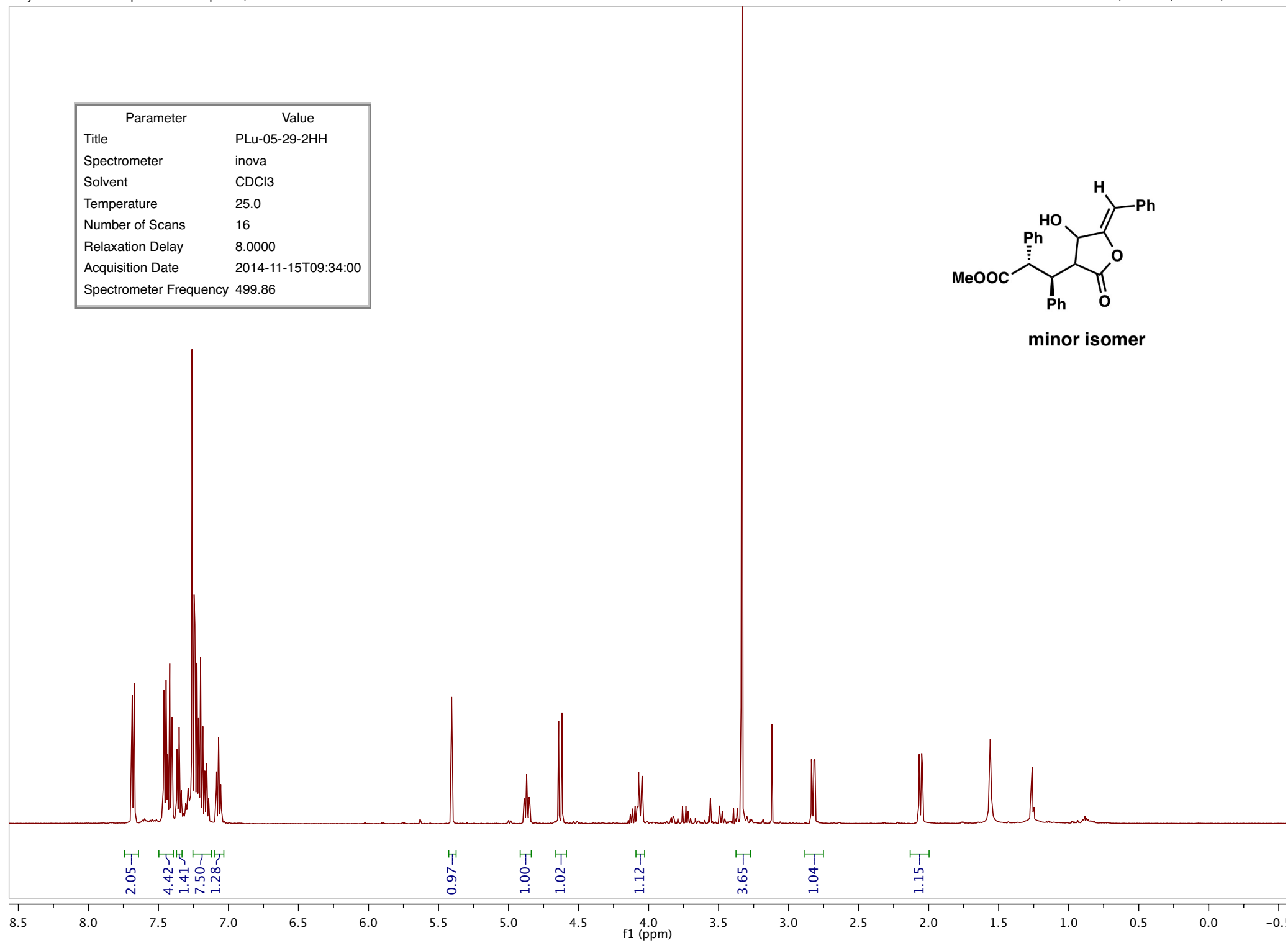


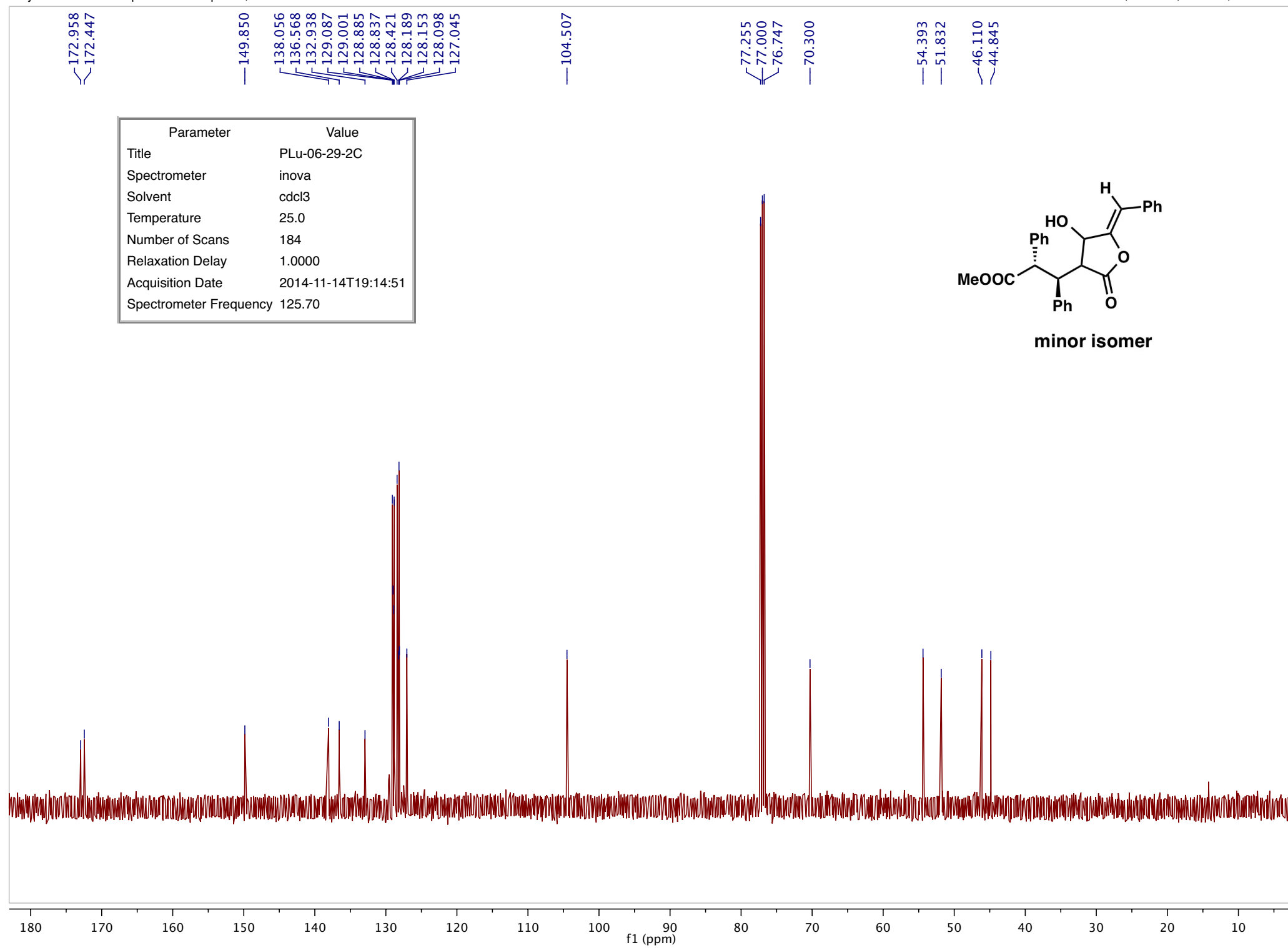
Parameter	Value
Title	PLu-06-29-1HH
Spectrometer	inova
Solvent	CDCl ₃
Temperature	25.0
Number of Scans	8
Relaxation Delay	8.0000
Acquisition Date	2014-11-15T09:27:25
Spectrometer Frequency	499.86

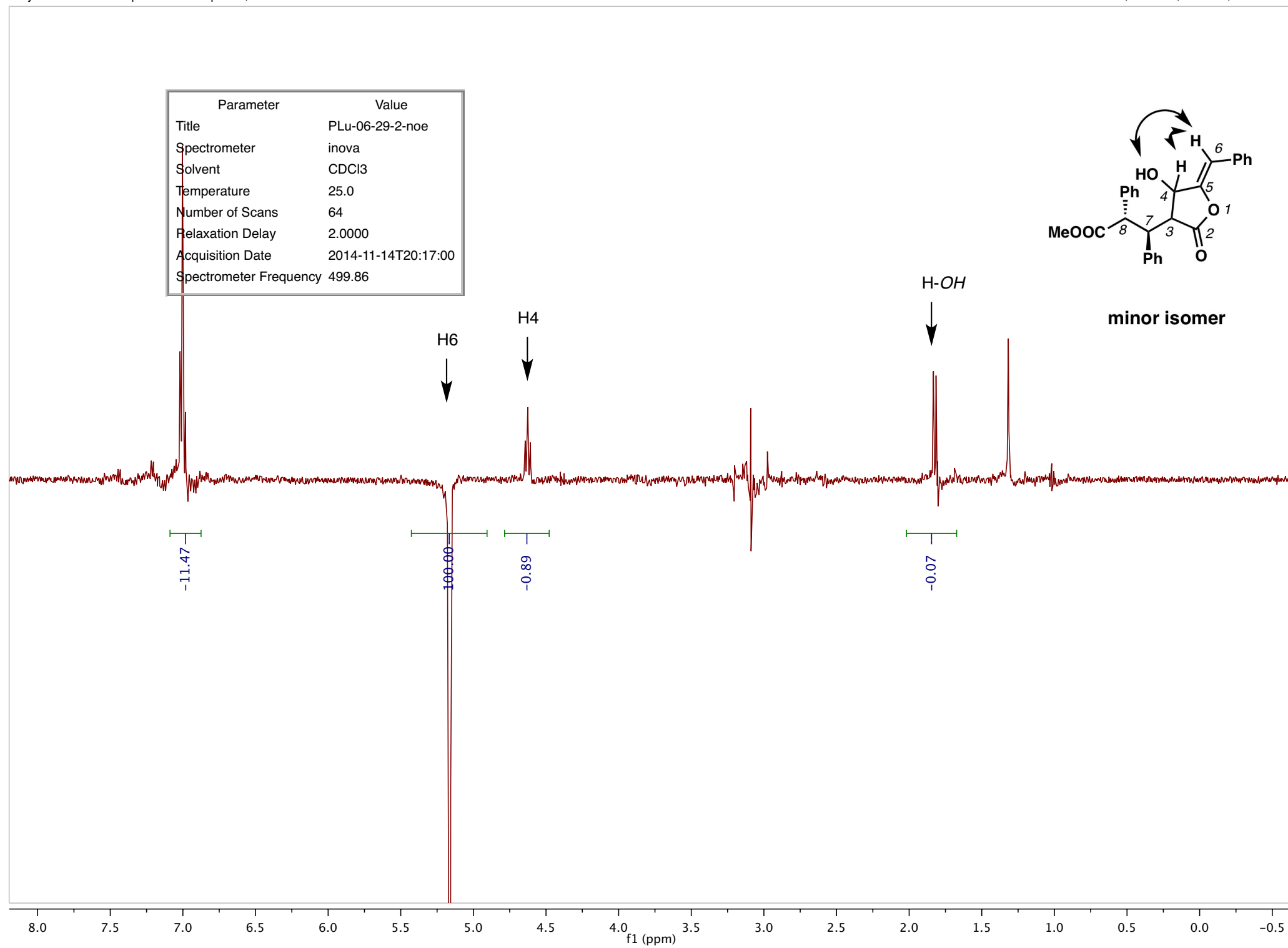
**major isomer**

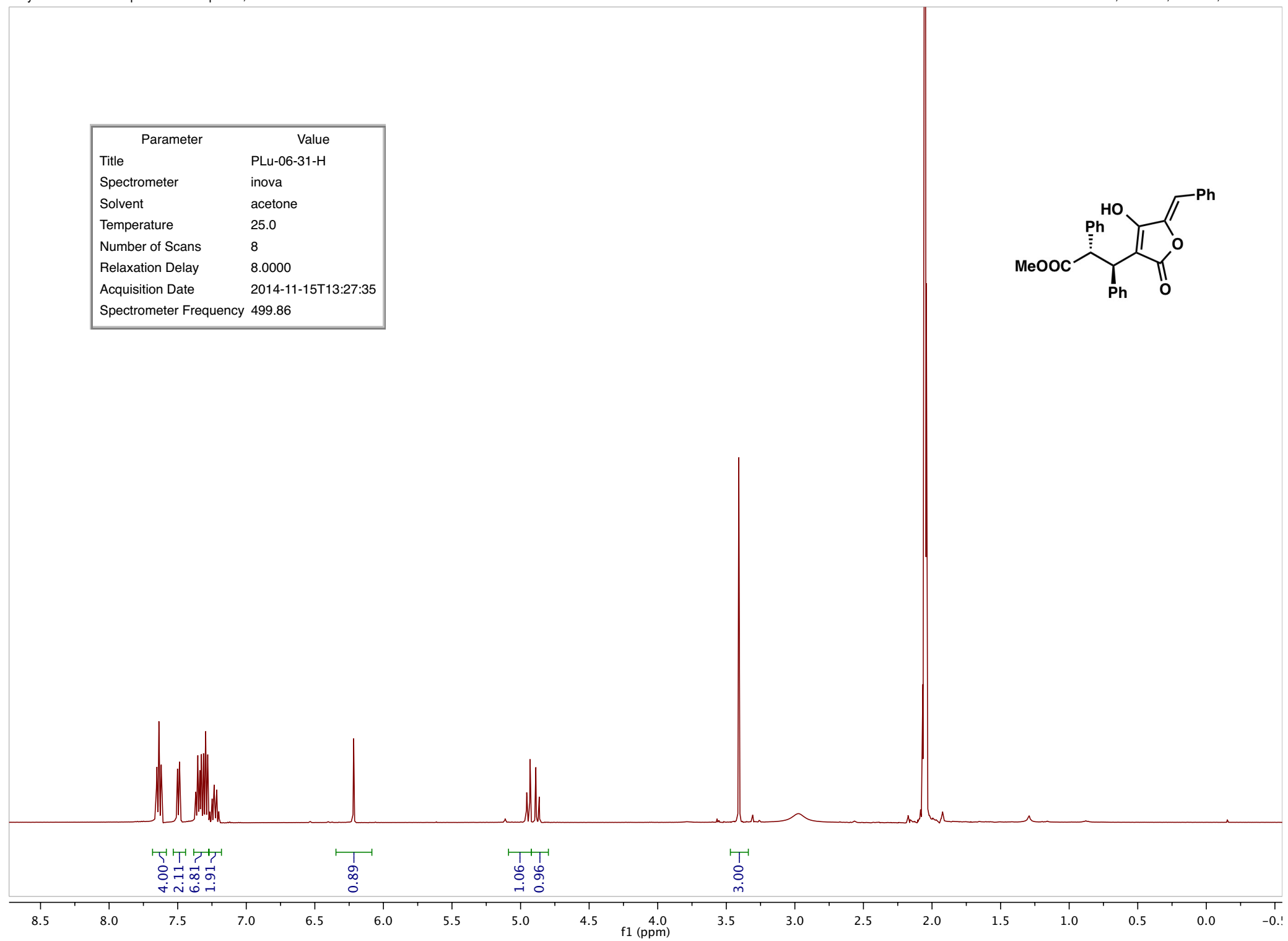


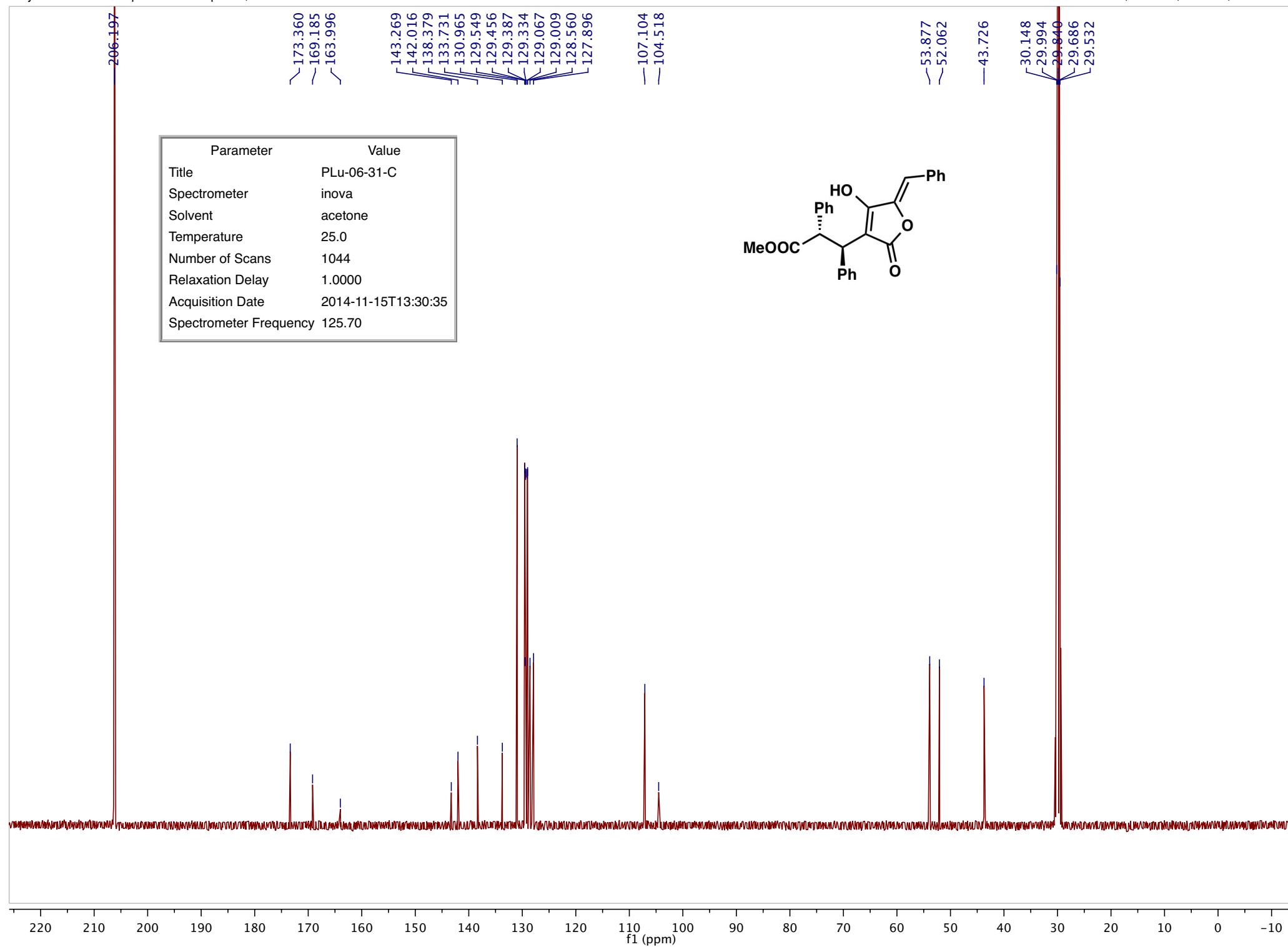




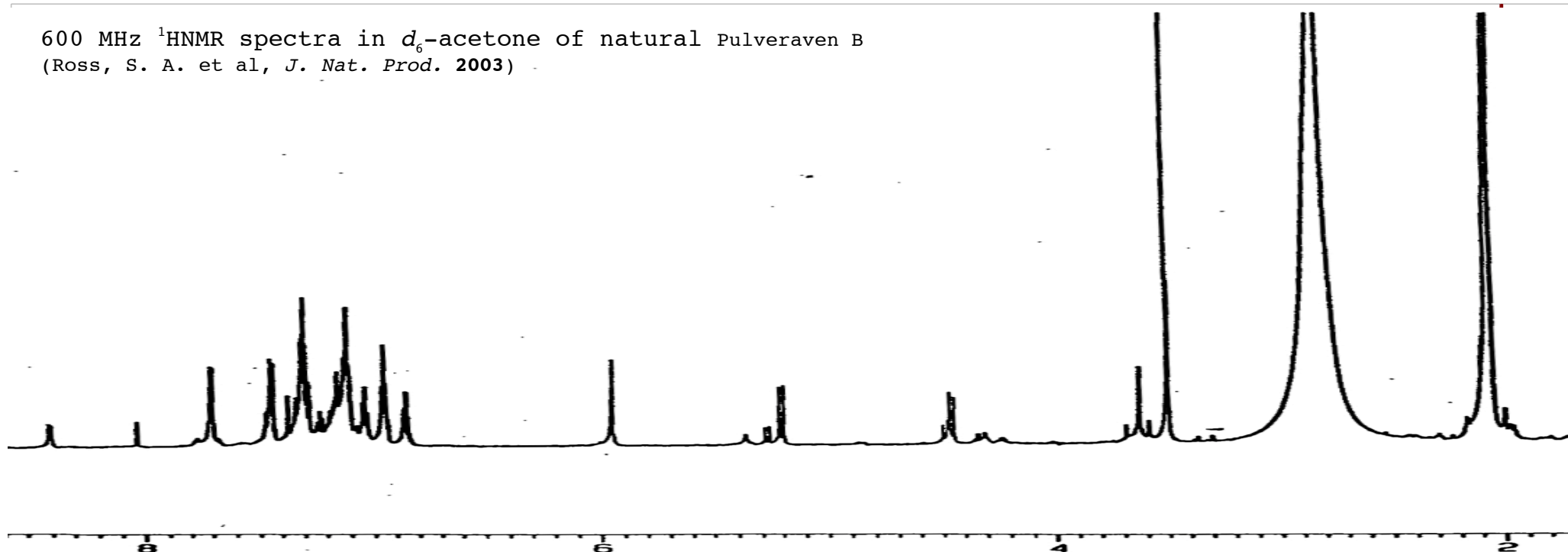




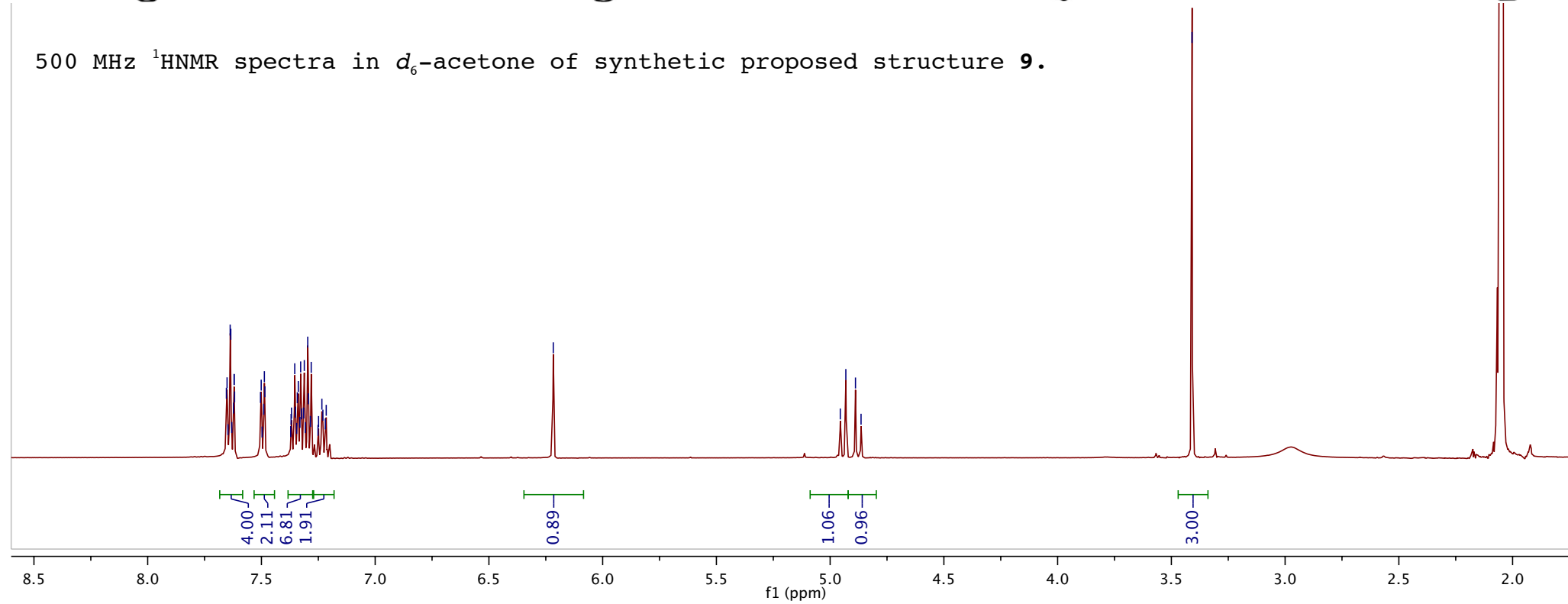


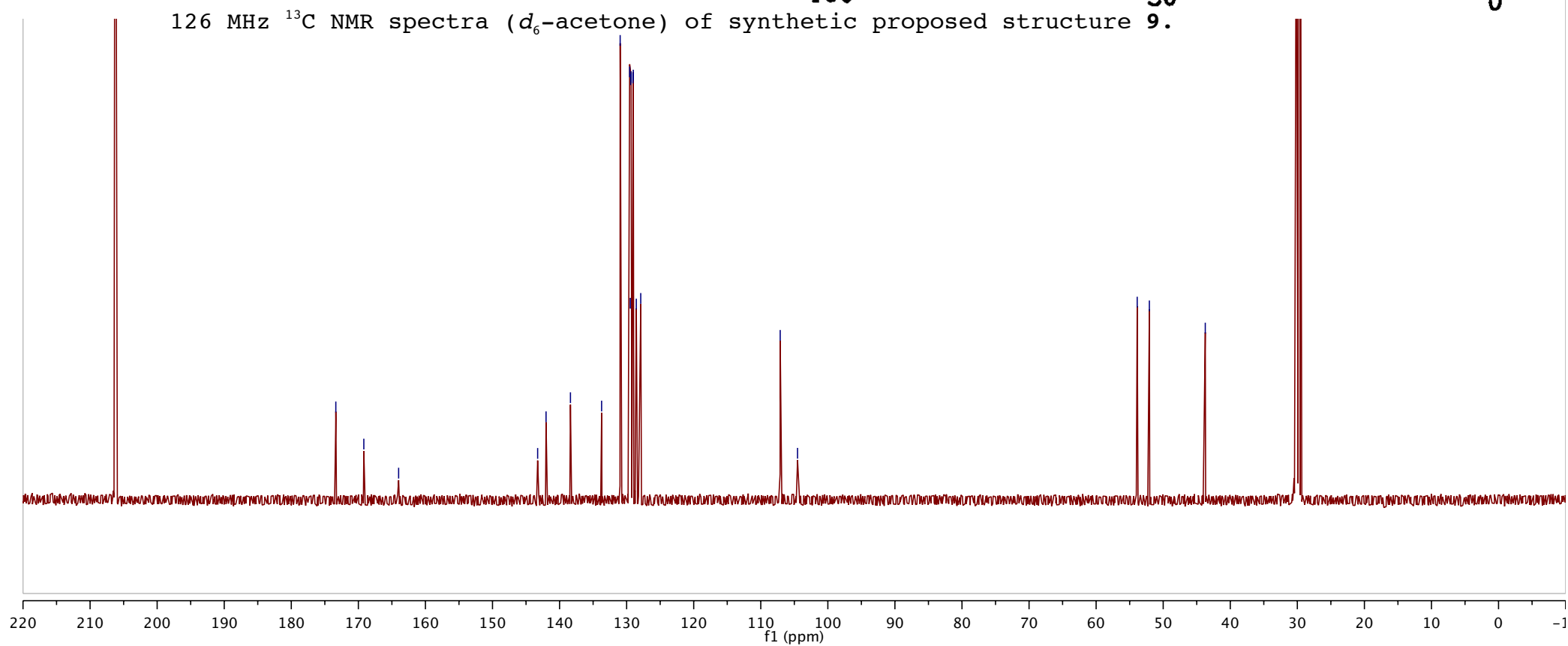
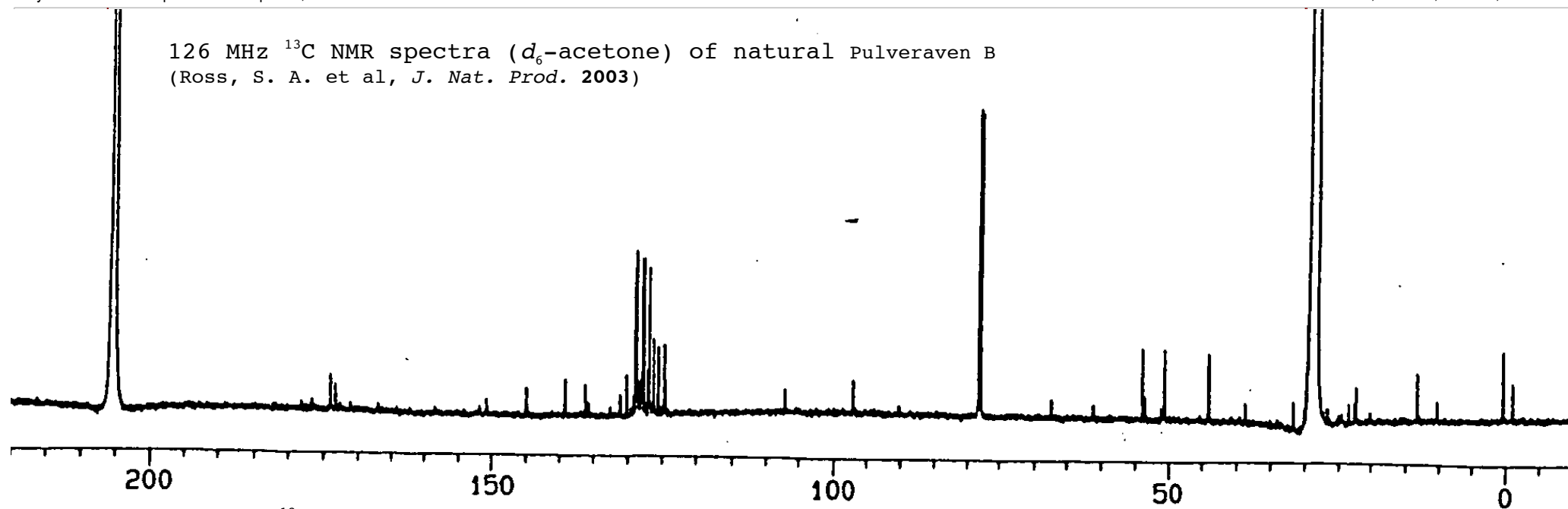


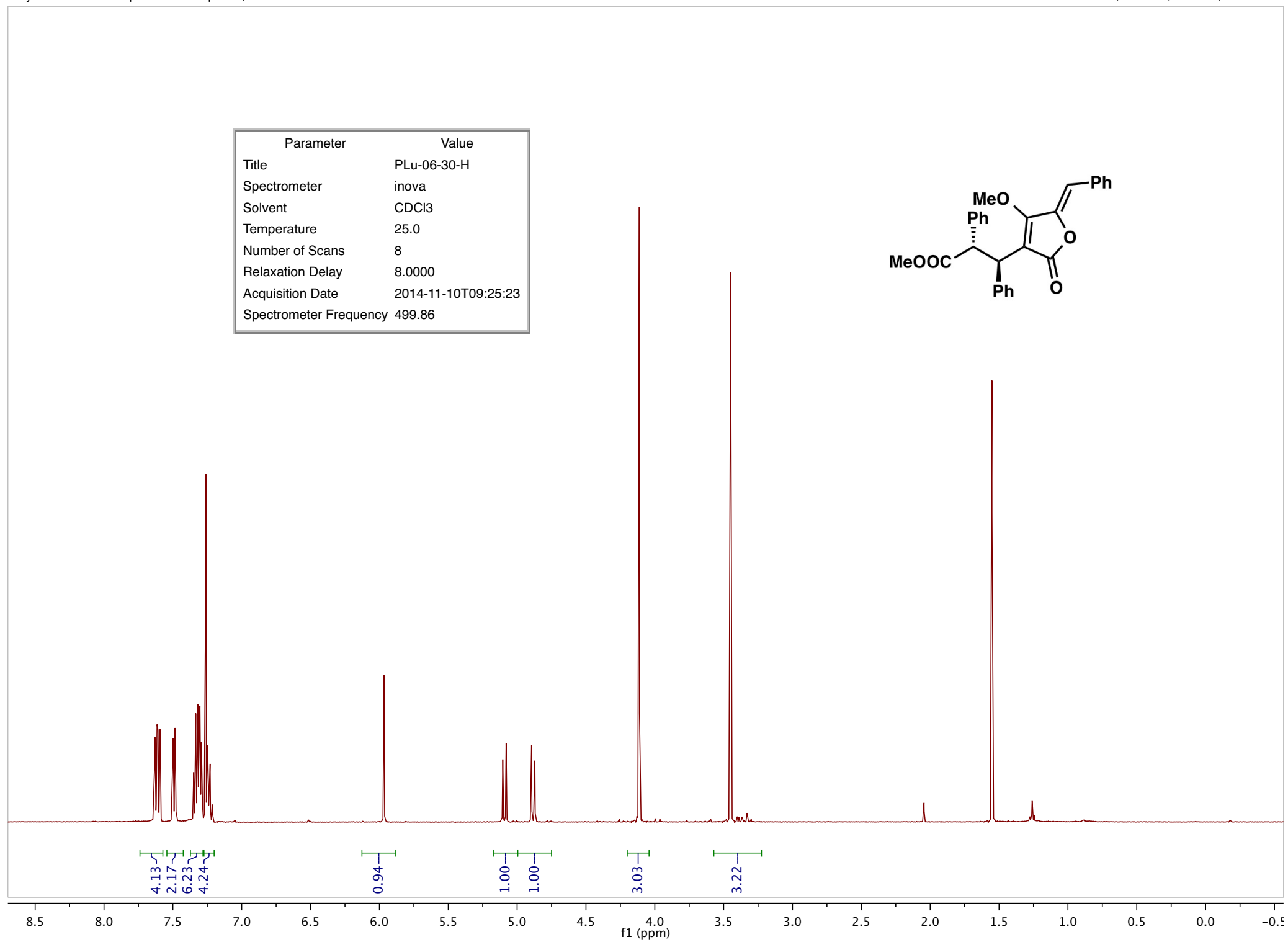
600 MHz ^1H NMR spectra in d_6 -acetone of natural Pulveraven B
(Ross, S. A. et al, *J. Nat. Prod.* 2003)

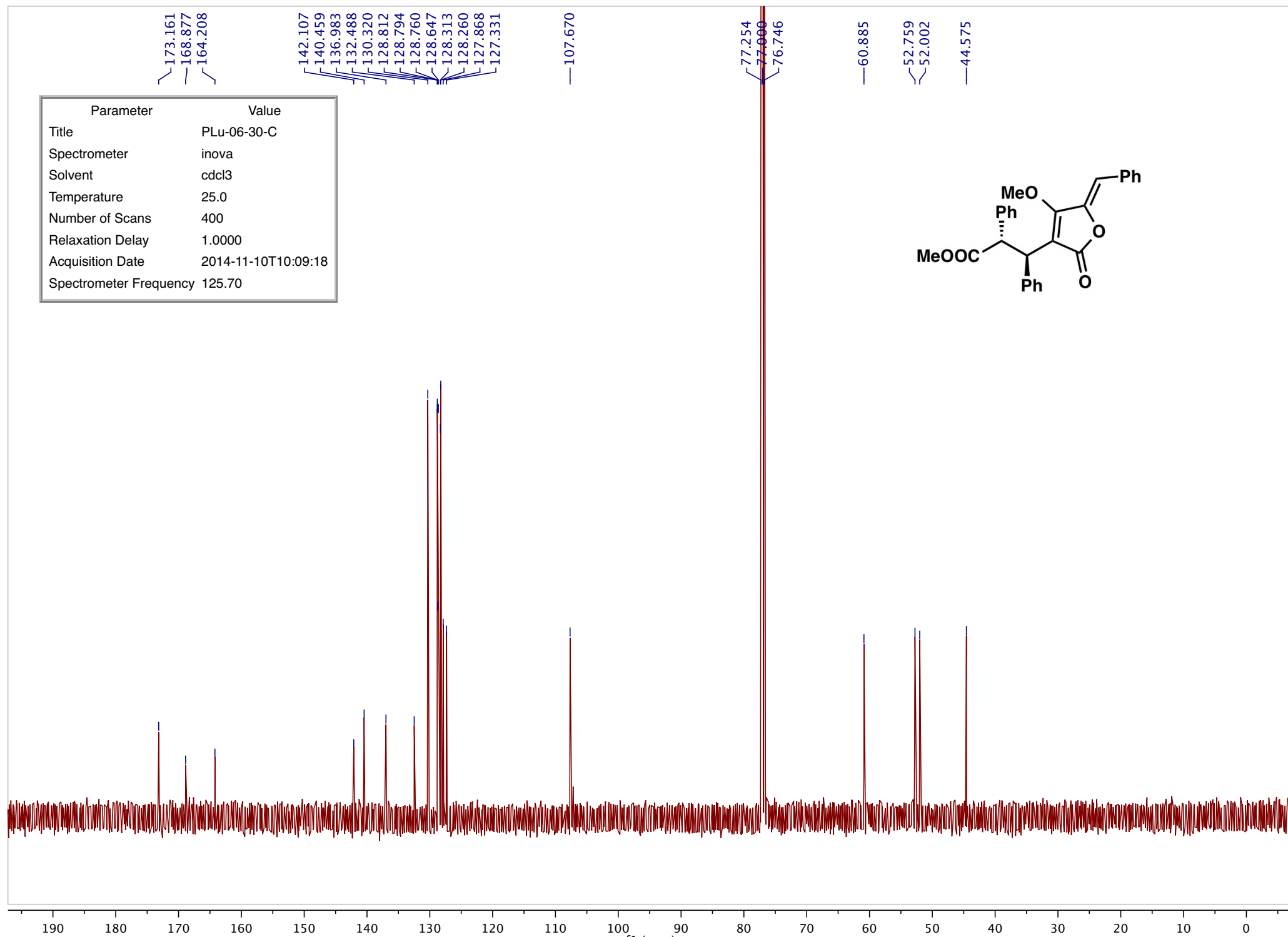


500 MHz ^1H NMR spectra in d_6 -acetone of synthetic proposed structure 9.





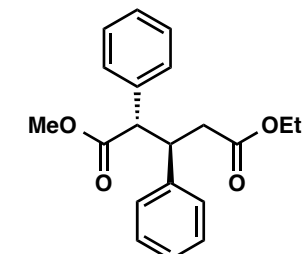




==== Shimadzu LCsolution Analysis Report ====

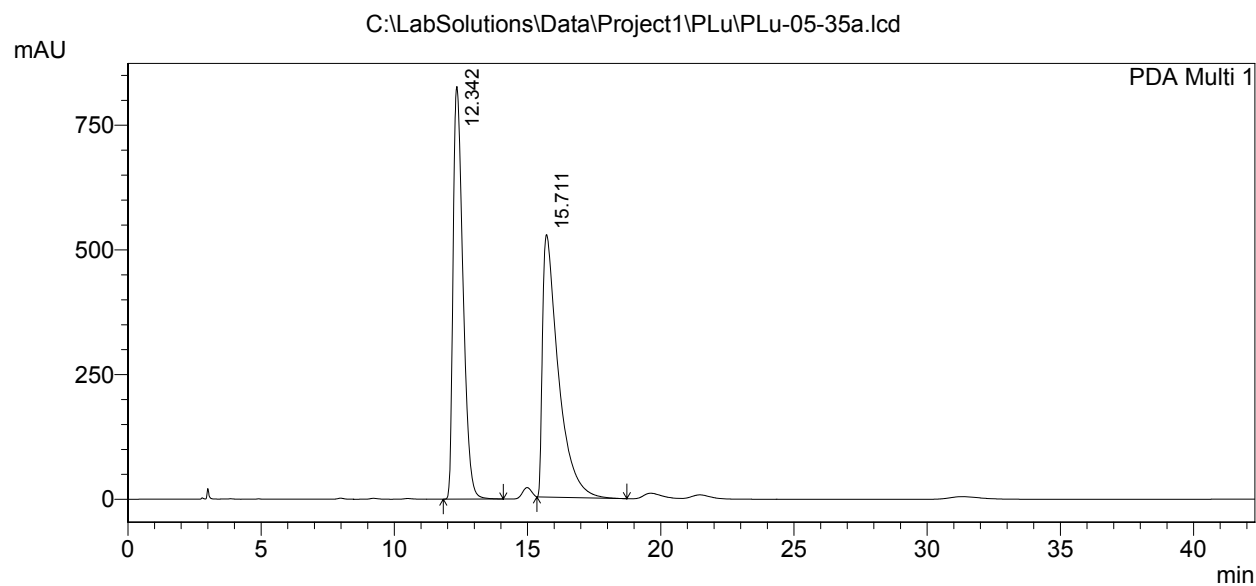
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Acquired by : Admin
 Sample Name : PLu-05-35
 Sample ID : PLu-05-35
 Vial # :
 Injection Volume : 20 uL
 Data File Name : PLu-05-35a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
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**3a**

methyl ester

<Chromatogram>



PeakTable

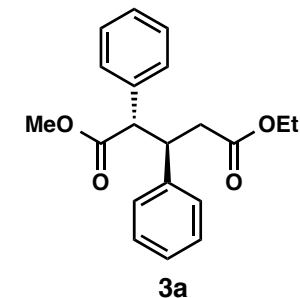
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	12.342	21412707	827543	49.560	61.130
2	15.711	21793027	526201	50.440	38.870
Total		43205734	1353744	100.000	100.000

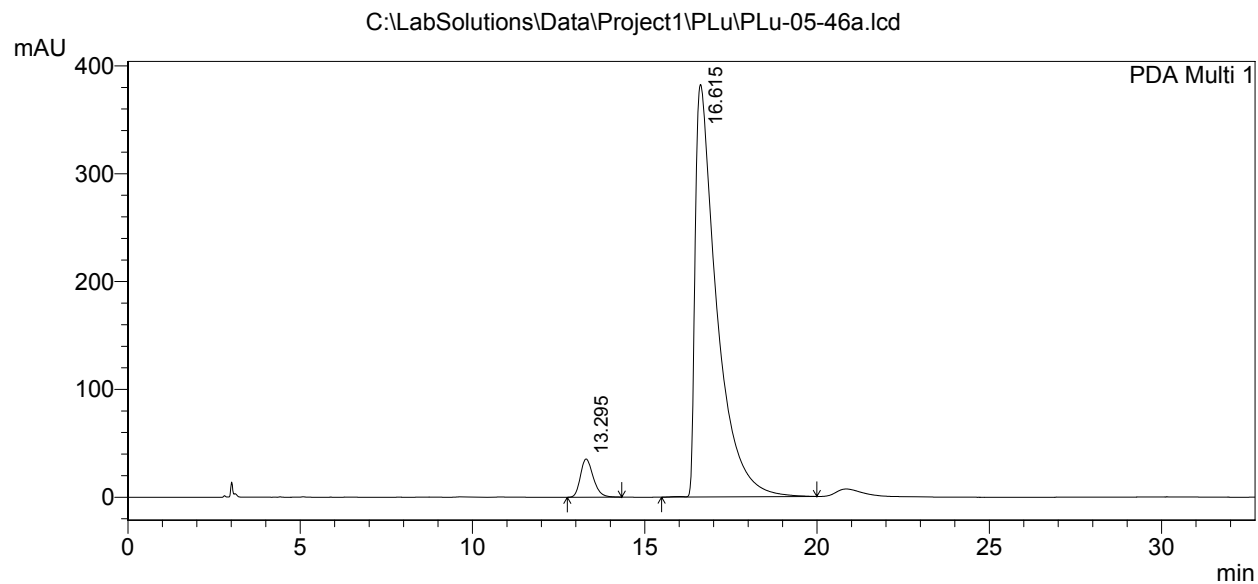
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-46a.lcd

Acquired by : Admin
 Sample Name : PLu-05-46
 Sample ID : PLu-05-46
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-46a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 4/12/2014 1:18:40 PM
 Data Processed : 4/12/2014 1:51:24 PM



<Chromatogram>



PeakTable

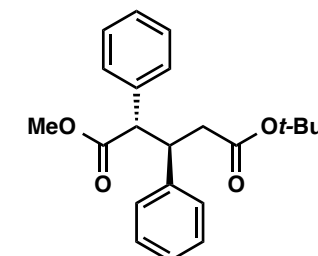
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	13.295	917124	35456	5.244	8.482
2	16.615	16572137	382547	94.756	91.518
Total		17489261	418003	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-39.lcd

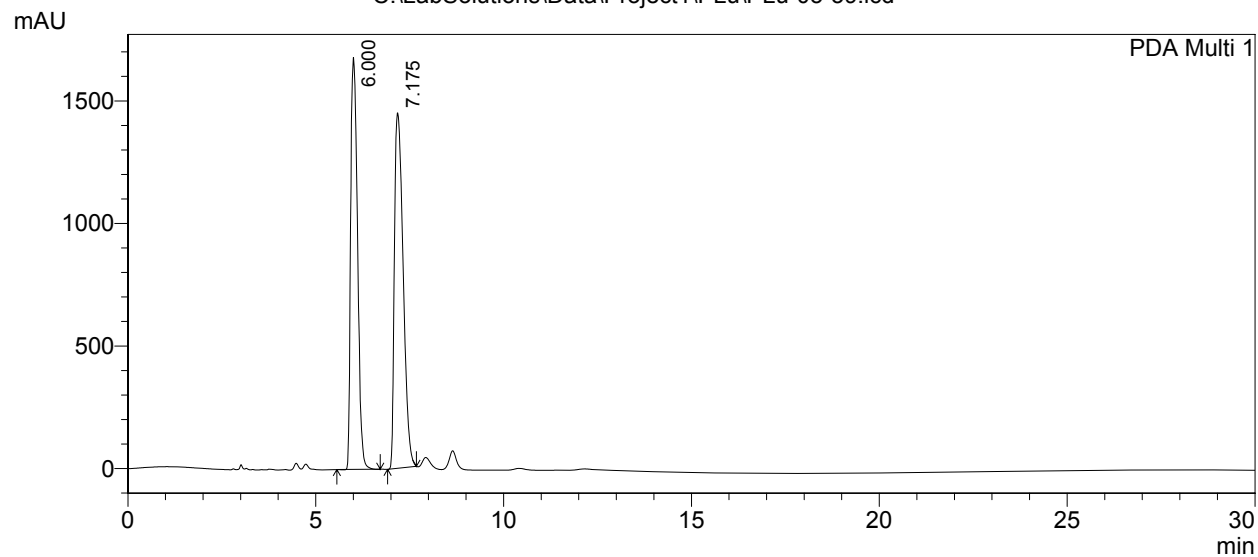
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 Sample Name : PLu-05-39
 Sample ID : PLu-05-39
 Vial # :
 Injection Volume : 20 uL
 Data File Name : PLu-05-39.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 4/4/2014 5:38:28 PM
 Data Processed : 4/4/2014 6:53:25 PM



3b
methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\PLu\PLu-05-39.lcd



1 PDA Multi 1/215nm 4nm

PeakTable

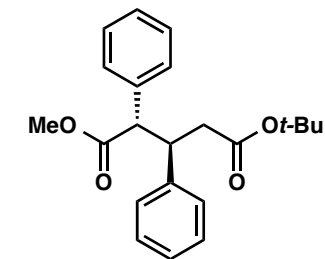
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.000	21354813	1681203	47.604	53.682
2	7.175	23504925	1450553	52.396	46.318
Total		44859738	3131756	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

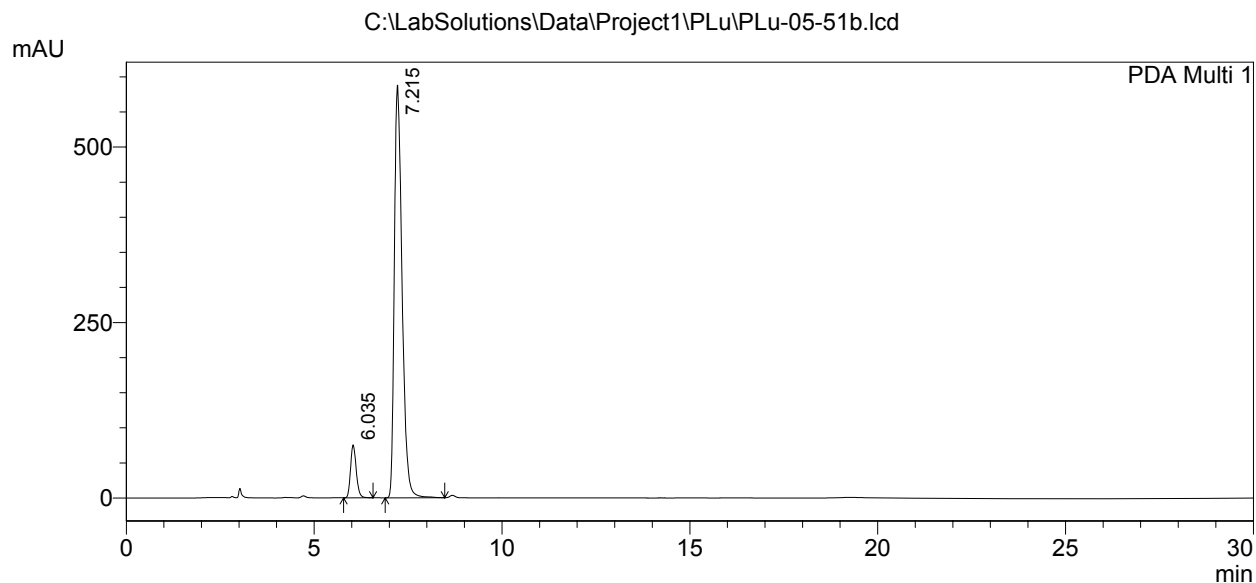
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Acquired by : Admin
 Sample Name : PLu-05-51
 Sample ID : PLu-05-51
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-51b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 4/15/2014 5:42:42 PM
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3b
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

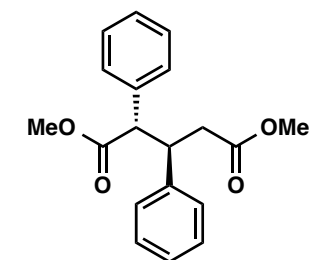
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.035	796193	75458	8.616	11.376
2	7.215	8444273	587839	91.384	88.624
Total		9240465	663297	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

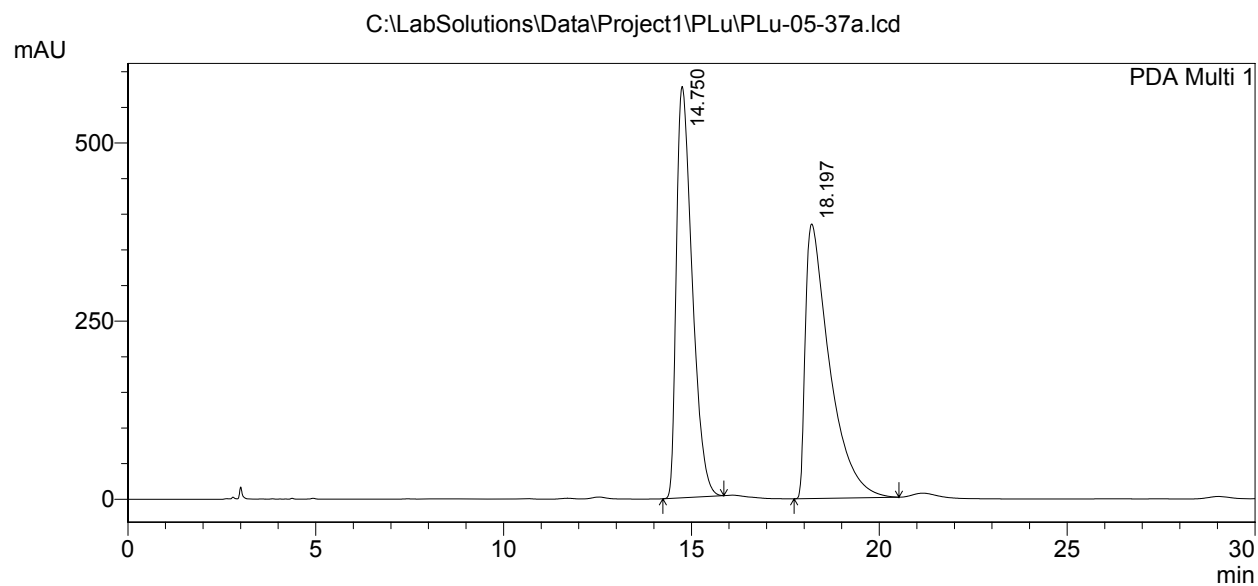
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Acquired by : Admin
 Sample Name : PLu-05-37
 Sample ID : PLu-05-37
 Vial # :
 Injection Volume : 20 uL
 Data File Name : PLu-05-37a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
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**3c**

methyl ester

<Chromatogram>



PeakTable

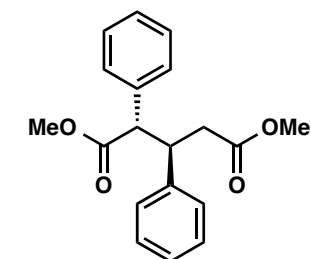
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	14.750	16879741	577355	49.432	59.970
2	18.197	17267500	385381	50.568	40.030
Total		34147240	962736	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-49a.lcd

Acquired by : Admin
Sample Name : PLu-05-49
Sample ID : PLu-05-49
Vial # :
Injection Volume : 10 uL
Data File Name : PLu-05-49a.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 4/14/2014 5:29:47 PM
Data Processed : 4/14/2014 6:37:38 PM

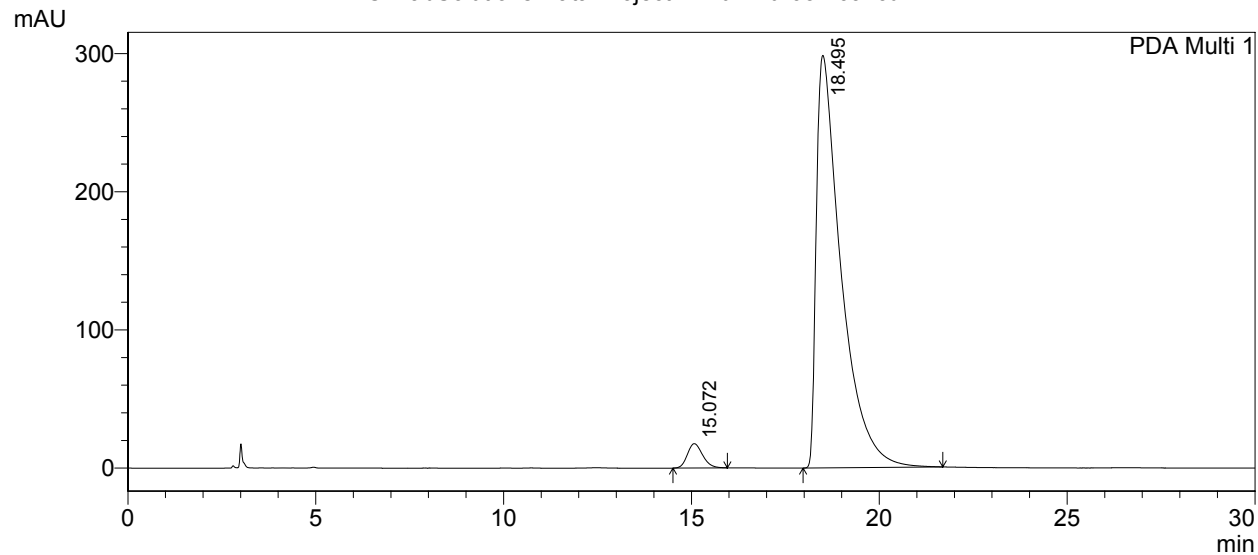


3c

methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\PLu\PLu-05-49a.lcd



1 PDA Multi 1/210nm 4nm

PeakTable

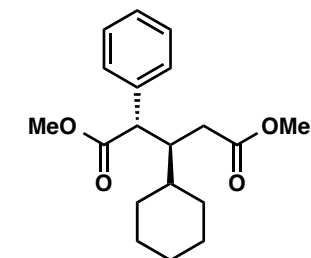
PDA Ch1 210nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	15.072	496602	17625	3.505	5.575
2	18.495	13672080	298532	96.495	94.425
Total		14168682	316157	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-66Me-a.lcd

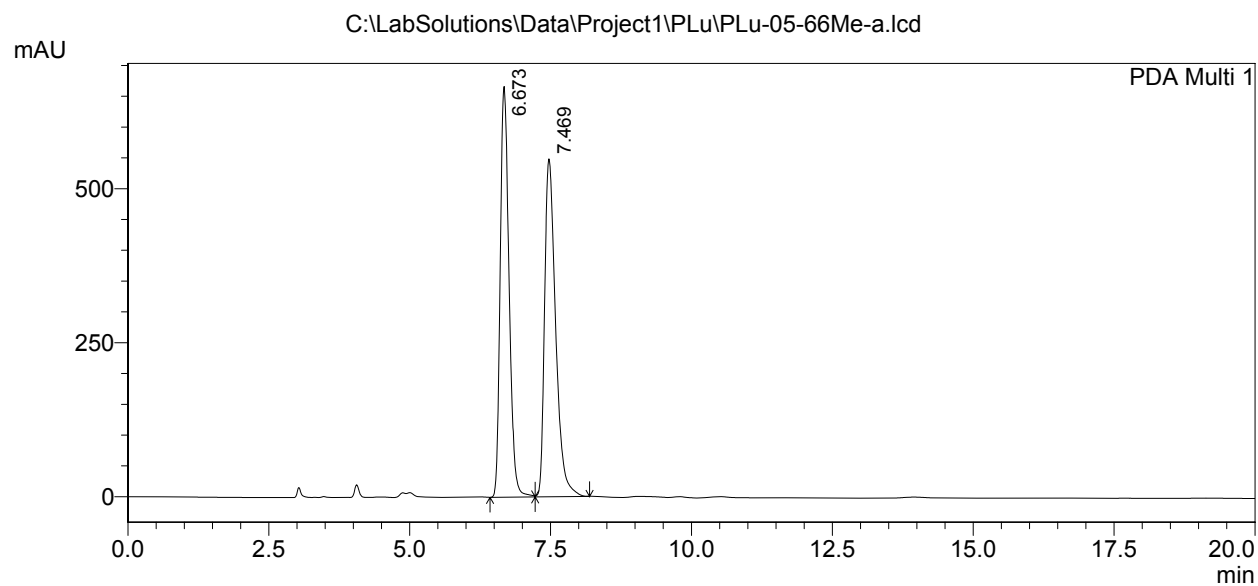
Acquired by : Admin
 Sample Name : PLu-05-66Me
 Sample ID : PLu-05-66Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-66Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
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 Data Processed : 5/6/2014 2:01:20 PM



4

methyl ester

<Chromatogram>



PeakTable

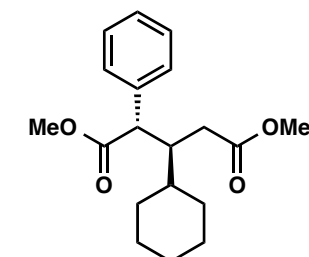
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.673	7274620	666845	49.339	54.864
2	7.469	7469594	548614	50.661	45.136
Total		14744213	1215459	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-106-Me-a.lcd

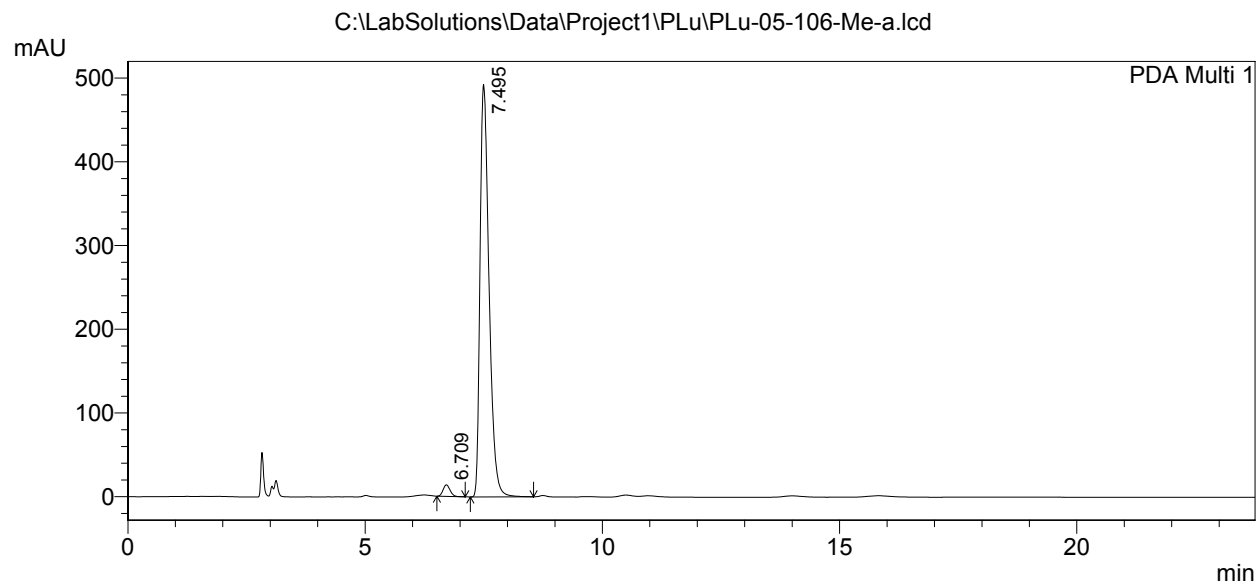
Acquired by : Admin
 Sample Name : PLu-05-106-Me
 Sample ID : PLu-05-106-Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-106-Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
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4

methylester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

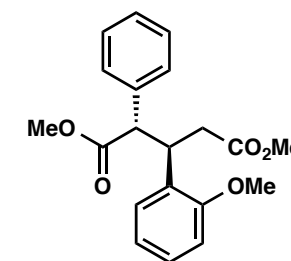
PeakTable

PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.709	141149	13803	2.128	2.725
2	7.495	6490632	492665	97.872	97.275
Total		6631780	506467	100.000	100.000

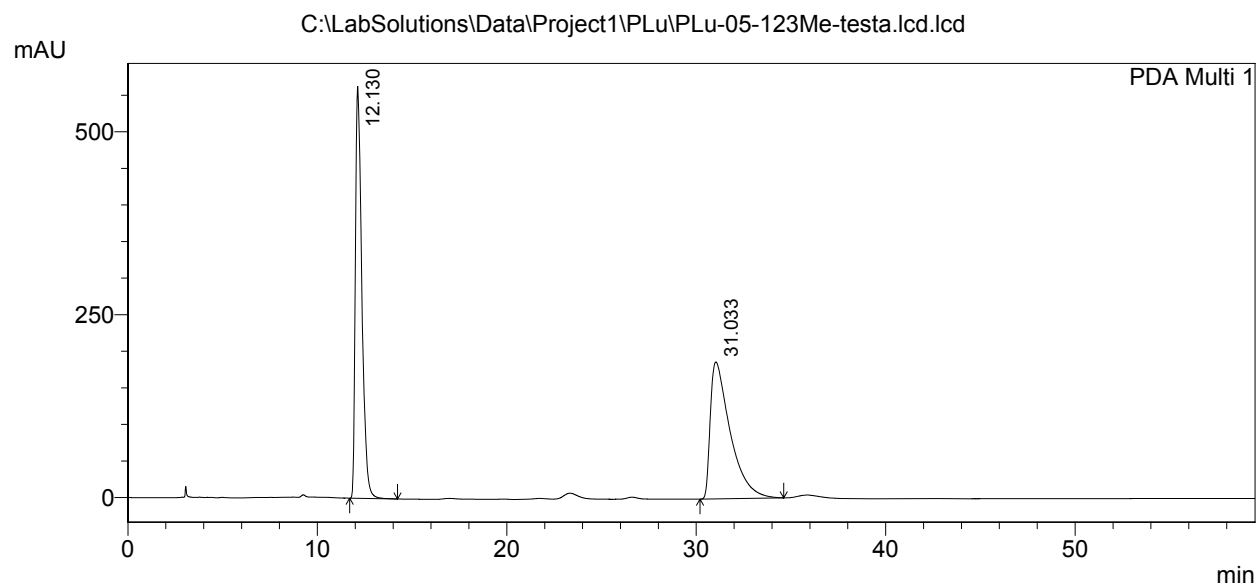
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-123Me-testa.lcd.lcd
 Acquired by : Admin
 Sample Name : PLu-05-123Me
 Sample ID : PLu-05-123Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-123Me-testa.lcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/11/2014 11:02:53 AM
 Data Processed : 6/11/2014 12:02:25 PM



5a
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

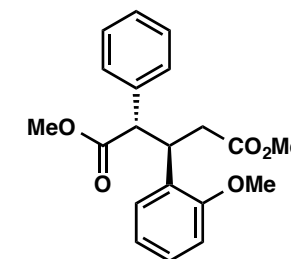
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	12.130	13370725	563118	49.532	75.050
2	31.033	13623258	187210	50.468	24.950
Total		26993983	750327	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

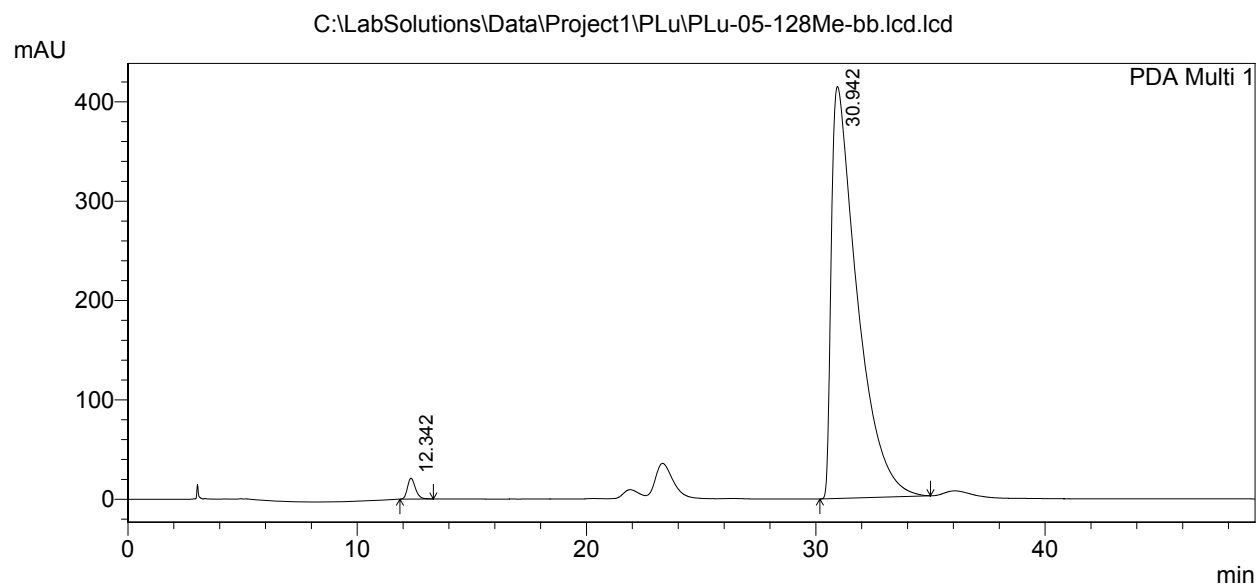
C:\LabSolutions\Data\Project1\PLu\PLu-05-128Me-bb.lcd.lcd

Acquired by : Admin
 Sample Name : PLu-05-128Me
 Sample ID : PLu-05-128Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-128Me-bb.lcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/11/2014 12:09:43 PM
 Data Processed : 6/11/2014 12:58:54 PM



5a
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

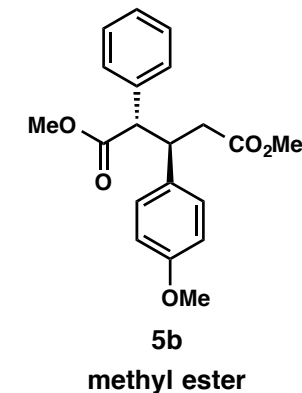
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	12.342	506154	20959	1.532	4.810
2	30.942	32523211	414762	98.468	95.190
Total		33029366	435721	100.000	100.000

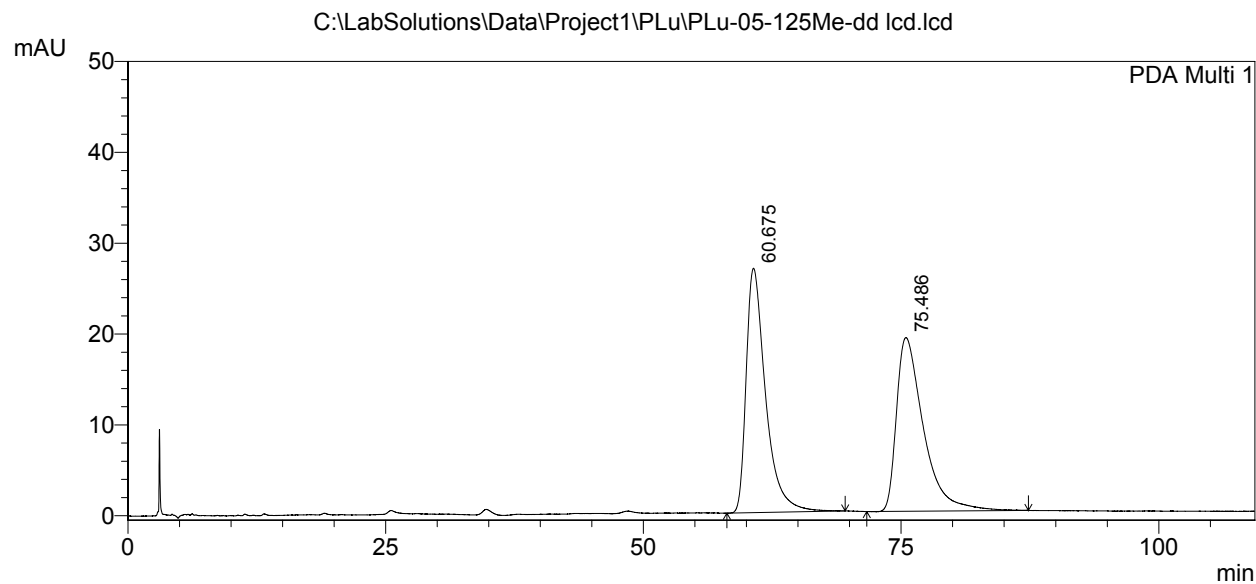
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-125Me-dd lcd.lcd

Acquired by : Admin
 Sample Name : PLu-05-125Me
 Sample ID : PLu-05-125Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-125Me-dd lcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/10/2014 2:49:33 PM
 Data Processed : 6/10/2014 4:38:55 PM



<Chromatogram>



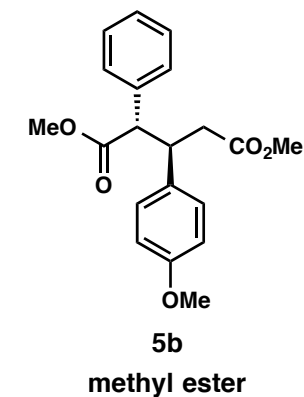
PeakTable

PDA Ch1 215nm 4nm

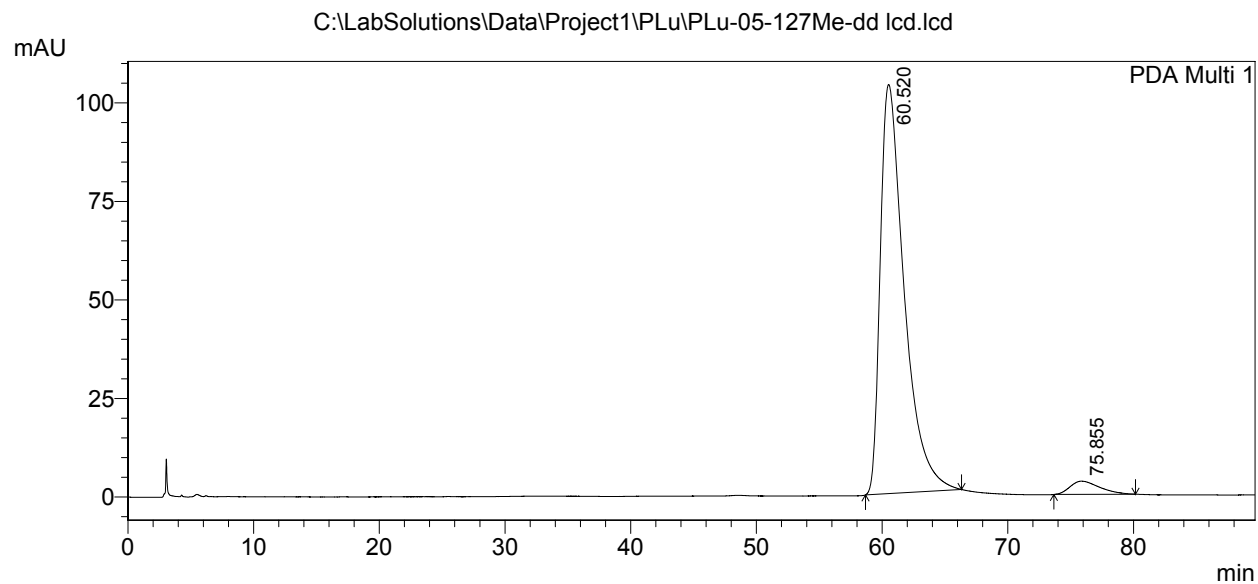
Peak#	Ret. Time	Area	Height	Area %	Height %
1	60.675	3521802	26908	50.322	58.446
2	75.486	3476735	19131	49.678	41.554
Total		6998536	46039	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-127Me-dd lcd.lcd
 Acquired by : Admin
 Sample Name : PLu-05-127Me
 Sample ID : PLu-05-127Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-127Me-dd lcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/10/2014 4:42:45 PM
 Data Processed : 6/10/2014 6:12:28 PM



<Chromatogram>



PeakTable

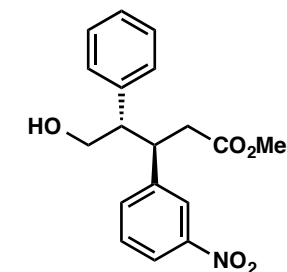
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	60.520	13724082	103829	96.158	96.871
2	75.855	548379	3353	3.842	3.129
Total		14272461	107182	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

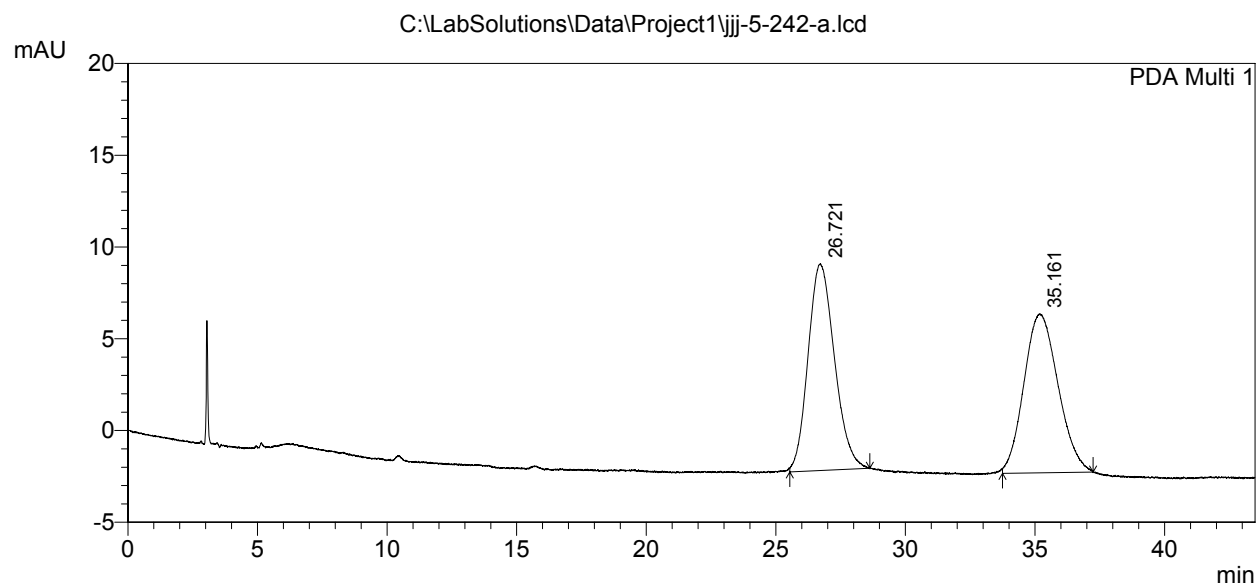
C:\LabSolutions\Data\Project1\jjj-5-242-a.lcd

Acquired by : Admin
 Sample Name : jjj-5-242-a
 Sample ID : jjj-5-242-a
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-242-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 11/18/2014 8:42:39 AM
 Data Processed : 11/18/2014 9:27:17 AM



5c
alcohol

<Chromatogram>



1 PDA Multi 1/210nm 4nm

PeakTable

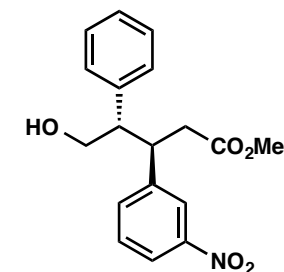
PDA Ch1 210nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	26.721	798582	11283	50.184	56.557
2	35.161	792717	8667	49.816	43.443
Total		1591299	19949	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

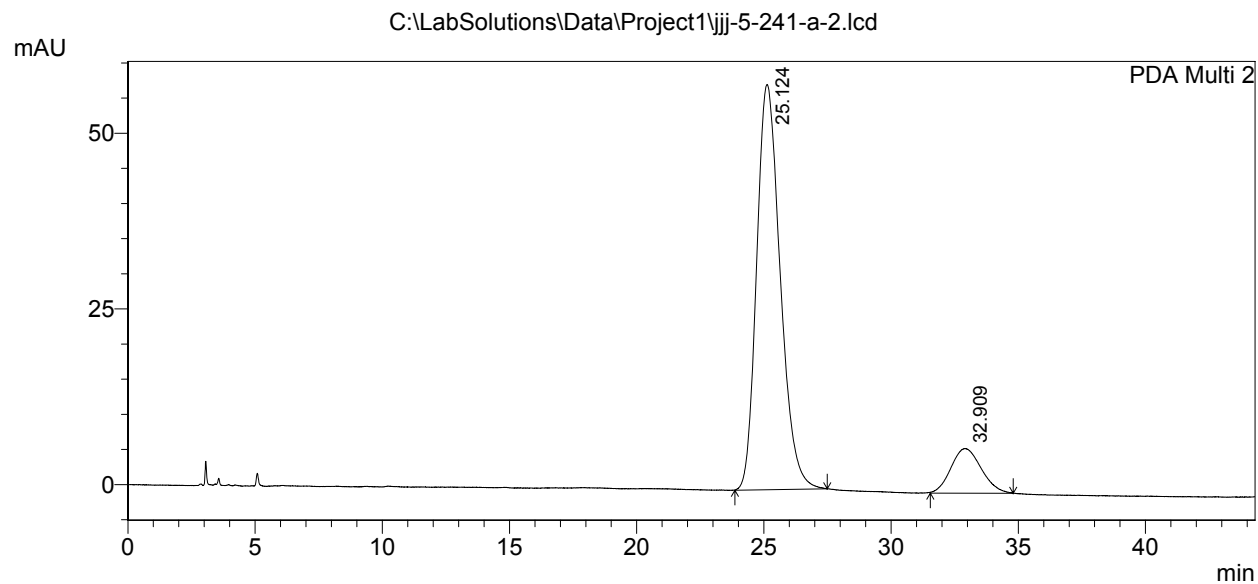
C:\LabSolutions\Data\Project1\jjj-5-241-a-2.lcd

Acquired by : Admin
 Sample Name : jjj-5-241-a-2
 Sample ID : jjj-5-241-a-2
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-241-a-2.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 11/17/2014 3:55:27 PM
 Data Processed : 11/18/2014 9:25:54 AM



5c
alcohol

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

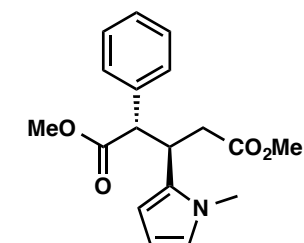
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	25.124	3718473	57687	87.572	90.074
2	32.909	527708	6357	12.428	9.926
Total		4246181	64044	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

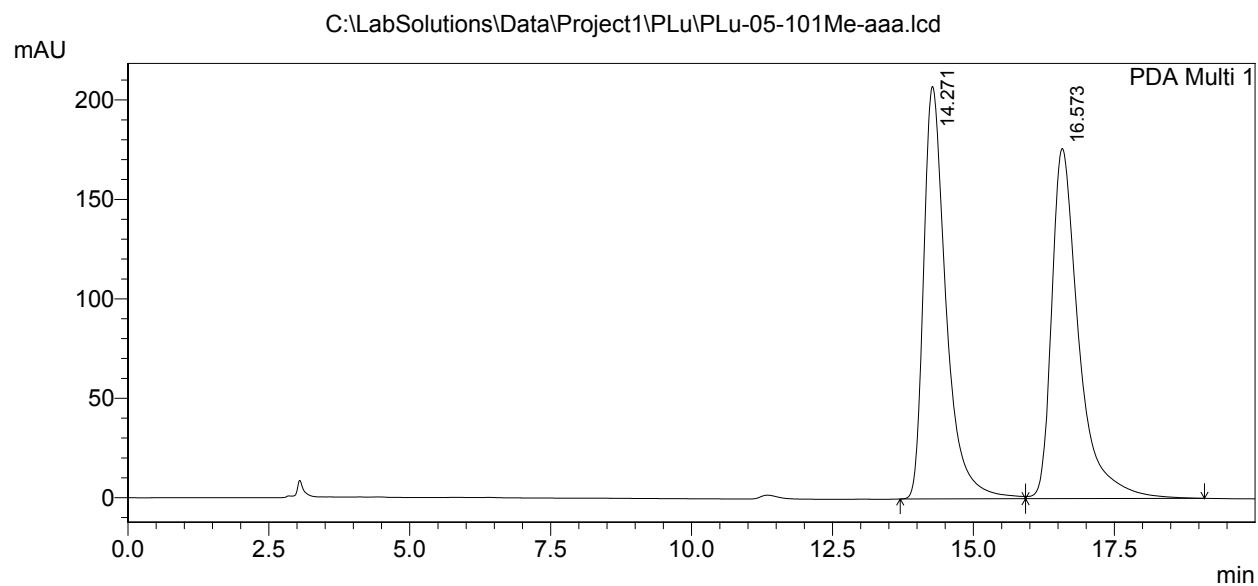
C:\LabSolutions\Data\Project1\PLu\PLu-05-101Me-aaa.lcd

Acquired by : Admin
 Sample Name : PLu-05-101Me
 Sample ID : PLu-05-101Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-101Me-aaa.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/7/2014 5:22:57 PM
 Data Processed : 6/7/2014 5:42:58 PM



5d
methyl ester

<Chromatogram>



PeakTable

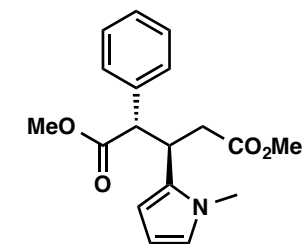
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	14.271	5737902	207418	49.389	54.085
2	16.573	5879821	176083	50.611	45.915
Total		11617723	383501	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

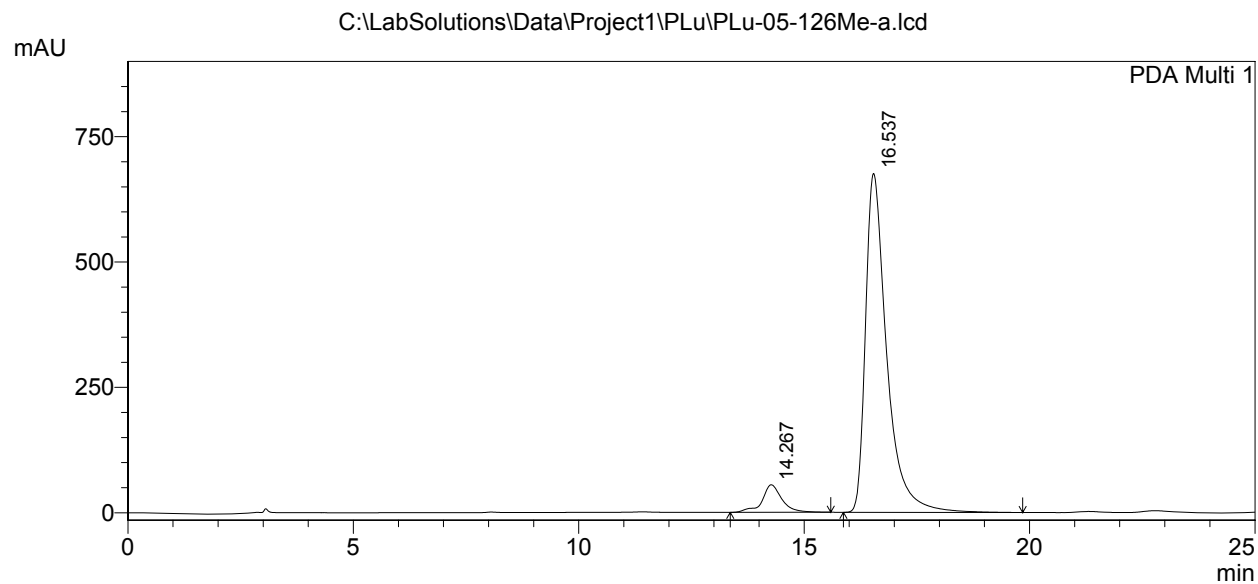
C:\LabSolutions\Data\Project1\PLu\PLu-05-126Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-126Me
 Sample ID : PLu-05-126Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-126Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/7/2014 4:40:34 PM
 Data Processed : 6/7/2014 5:15:05 PM



5d
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

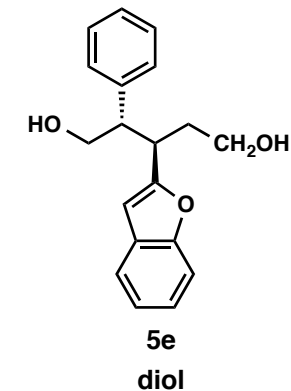
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	14.267	1676791	54964	7.054	7.519
2	16.537	22095373	676045	92.946	92.481
Total		23772163	731010	100.000	100.000

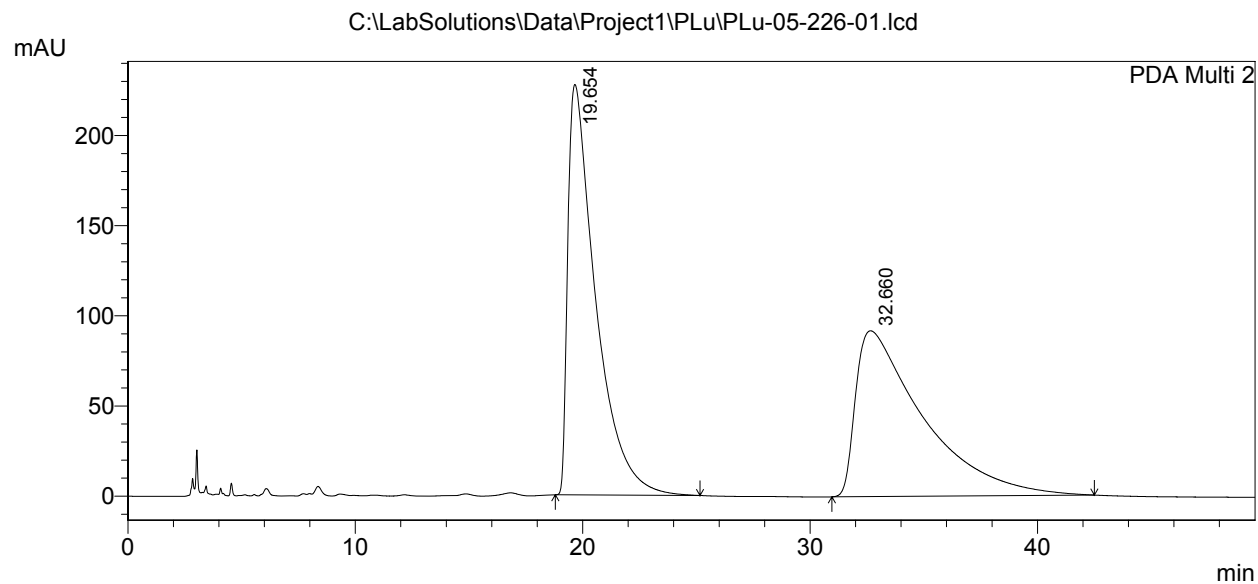
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-226-01.lcd

Acquired by : Admin
 Sample Name : PLu-05-226
 Sample ID : PLu-05-226
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-226-01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/27/2014 9:51:57 AM
 Data Processed : 8/27/2014 10:44:07 AM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

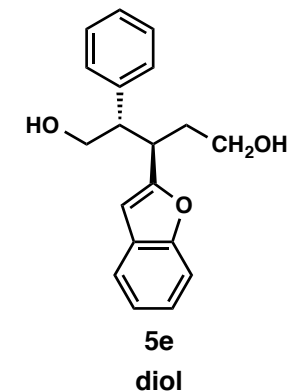
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	19.654	19377682	227621	50.573	71.226
2	32.660	18938853	91955	49.427	28.774
Total		38316535	319576	100.000	100.000

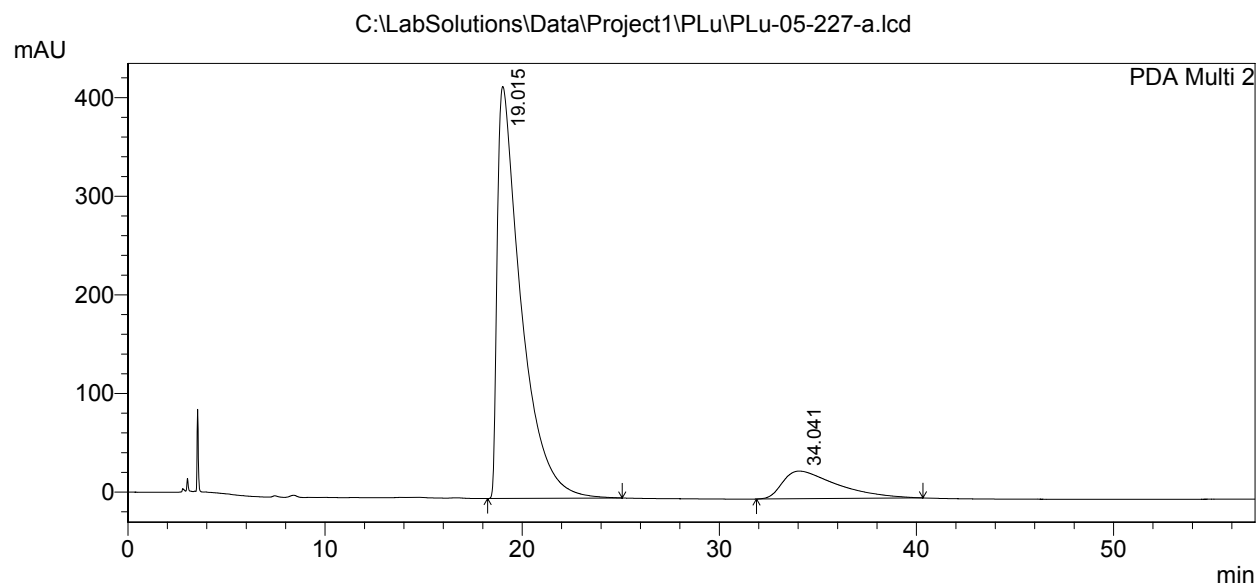
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-227-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-227
 Sample ID : PLu-05-227
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-227-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/28/2014 9:57:50 AM
 Data Processed : 11/17/2014 2:52:48 PM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

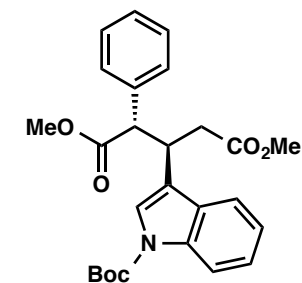
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	19.015	35055763	417781	86.634	93.707
2	34.041	5408577	28055	13.366	6.293
Total		40464341	445836	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

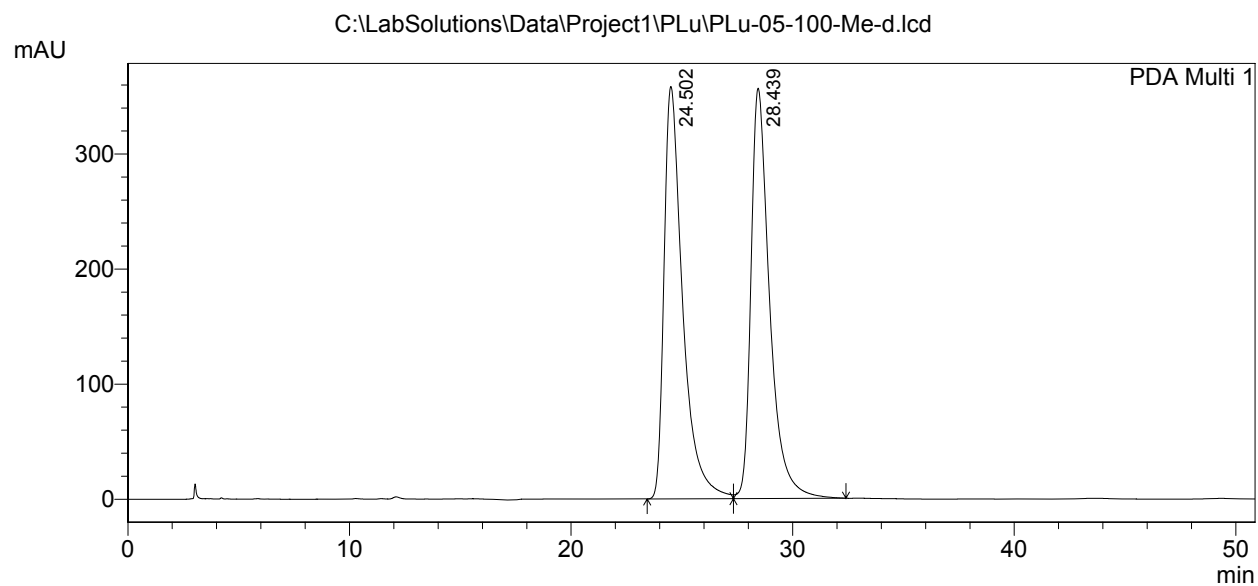
C:\LabSolutions\Data\Project1\PLu\PLu-05-100-Me-d.lcd

Acquired by : Admin
 Sample Name : PLu-05-100-Me
 Sample ID : PLu-05-100-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-100-Me-d.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/20/2014 2:24:11 PM
 Data Processed : 5/20/2014 3:15:04 PM



5f
methyl ester

<Chromatogram>



PeakTable

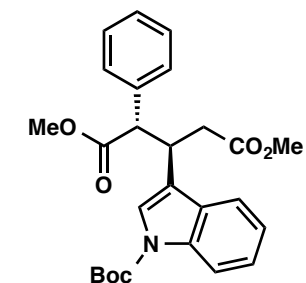
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.502	20916152	358421	50.059	50.128
2	28.439	20866982	356596	49.941	49.872
Total		41783133	715018	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-99-Me-b.lcd

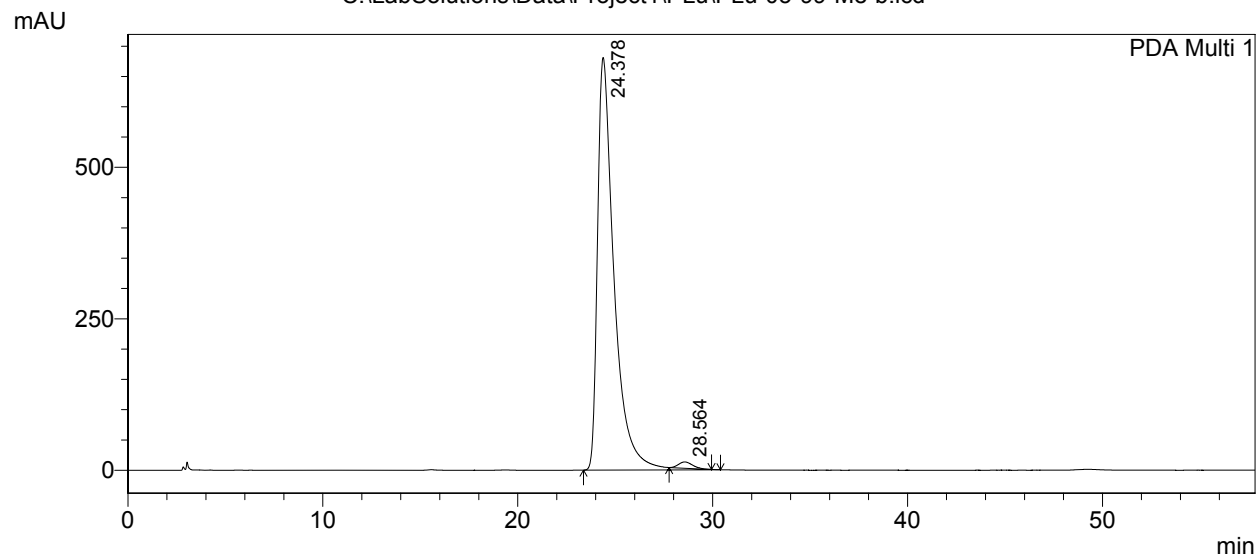
Acquired by : Admin
 Sample Name : PLu-05-99-Me
 Sample ID : PLu-05-99-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-99-Me-b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/20/2014 12:28:10 PM
 Data Processed : 5/20/2014 1:26:01 PM



5f
methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\PLu\PLu-05-99-Me-b.lcd



1 PDA Multi 1/215nm 4nm

PeakTable

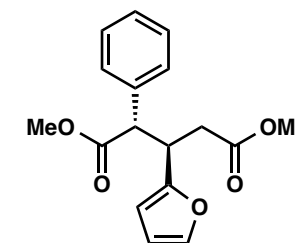
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.378	40158106	681092	98.723	98.497
2	28.564	519456	10396	1.277	1.503
Total		40677562	691488	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

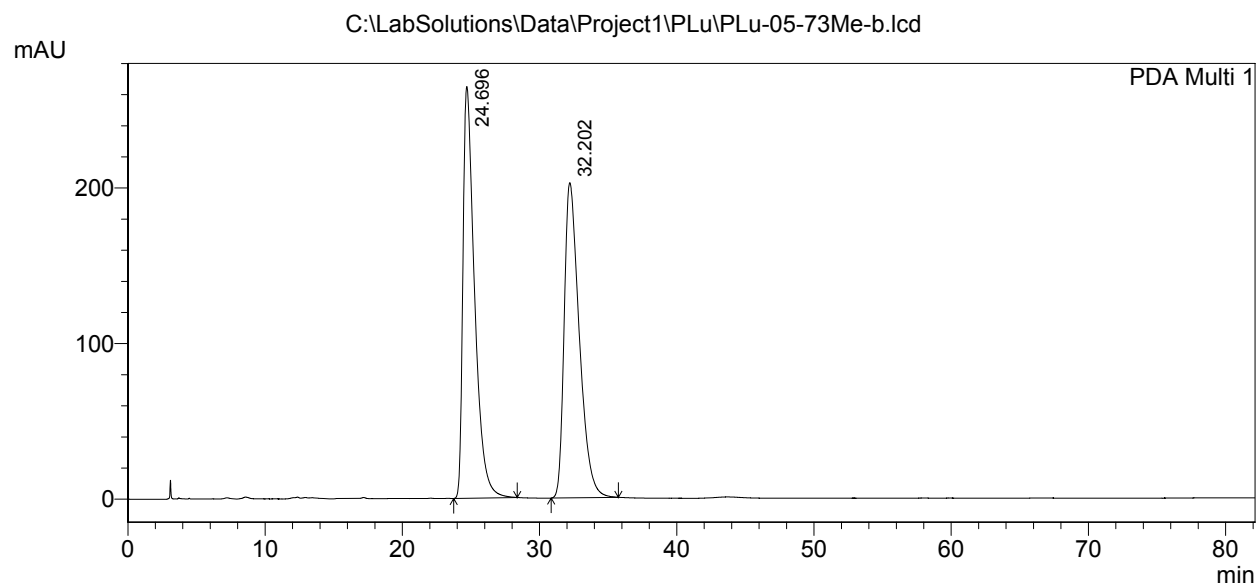
C:\LabSolutions\Data\Project1\PLu\PLu-05-73Me-b.lcd

Acquired by : Admin
 Sample Name : PLu-05-73Me
 Sample ID : PLu-05-73Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-73Me-b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/2/2014 11:57:39 AM
 Data Processed : 5/2/2014 1:19:50 PM



5g
methyl ester

<Chromatogram>



PeakTable

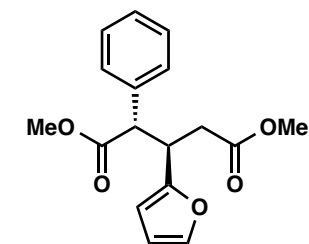
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.696	15582434	264704	50.196	56.648
2	32.202	15460821	202573	49.804	43.352
Total		31043255	467277	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

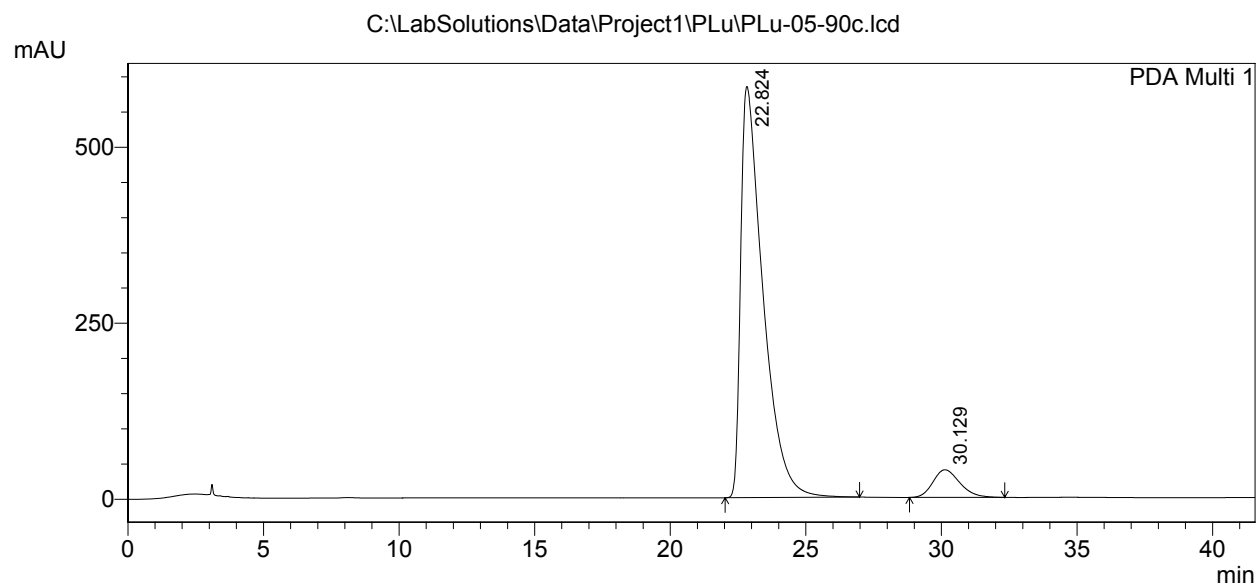
C:\LabSolutions\Data\Project1\PLu\PLu-05-90c.lcd

Acquired by : Admin
 Sample Name : PLu-05-90Me
 Sample ID : PLu-05-90Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-90c.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/13/2014 3:44:13 PM
 Data Processed : 5/13/2014 4:35:00 PM



5g
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

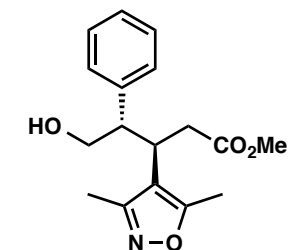
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	22.824	33336083	583990	92.500	93.706
2	30.129	2702862	39227	7.500	6.294
Total		36038946	623217	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\jjj-5-101-c02.lcd

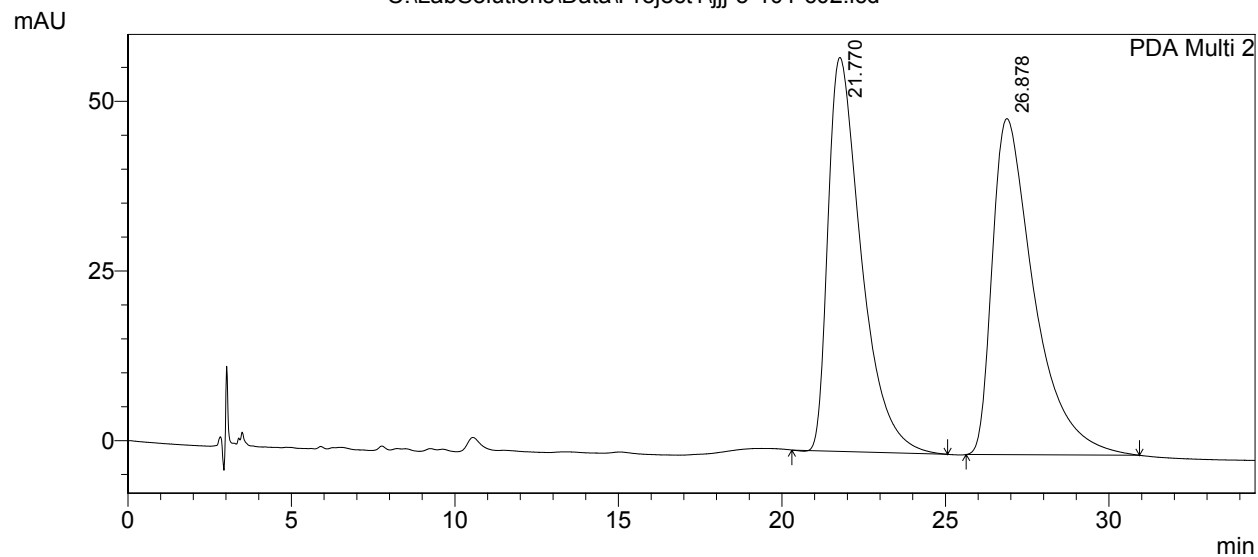
Acquired by : Admin
 Sample Name : jjj-5-101-c
 Sample ID : jjj-5-101-c
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-101-c02.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/27/2014 5:28:47 PM
 Data Processed : 8/27/2014 6:03:17 PM



5h
alcohol

<Chromatogram>

C:\LabSolutions\Data\Project1\jjj-5-101-c02.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

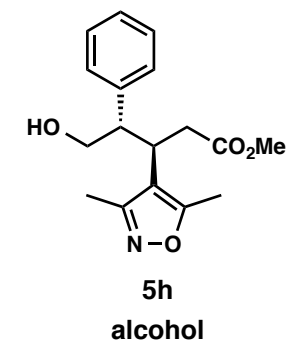
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	21.770	4105061	58063	48.236	53.962
2	26.878	4405285	49536	51.764	46.038
Total		8510346	107600	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

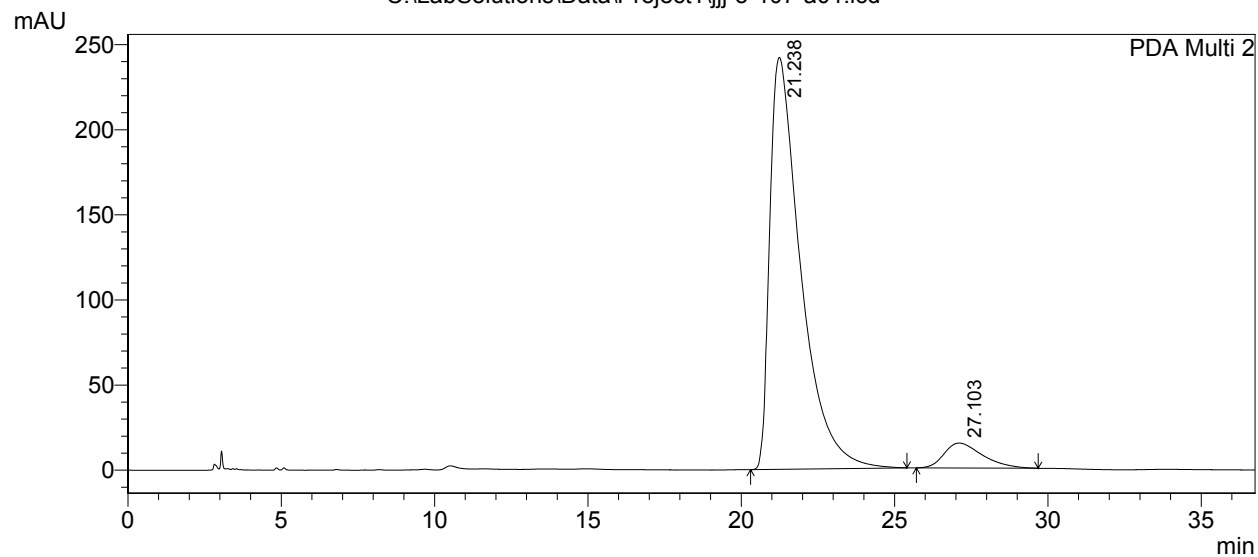
C:\LabSolutions\Data\Project1\jjj-5-107-a01.lcd

Acquired by : Admin
 Sample Name : jjj-5-107-a
 Sample ID : jjj-5-107-a
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-107-a01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/29/2014 4:13:52 PM
 Data Processed : 11/3/2014 4:10:10 PM



<Chromatogram>

C:\LabSolutions\Data\Project1\jjj-5-107-a01.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

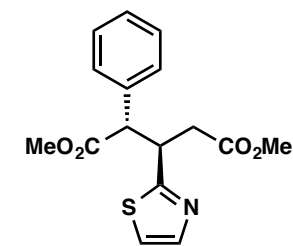
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	21.238	16940174	241991	93.005	94.294
2	27.103	1274041	14644	6.995	5.706
Total		18214214	256634	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

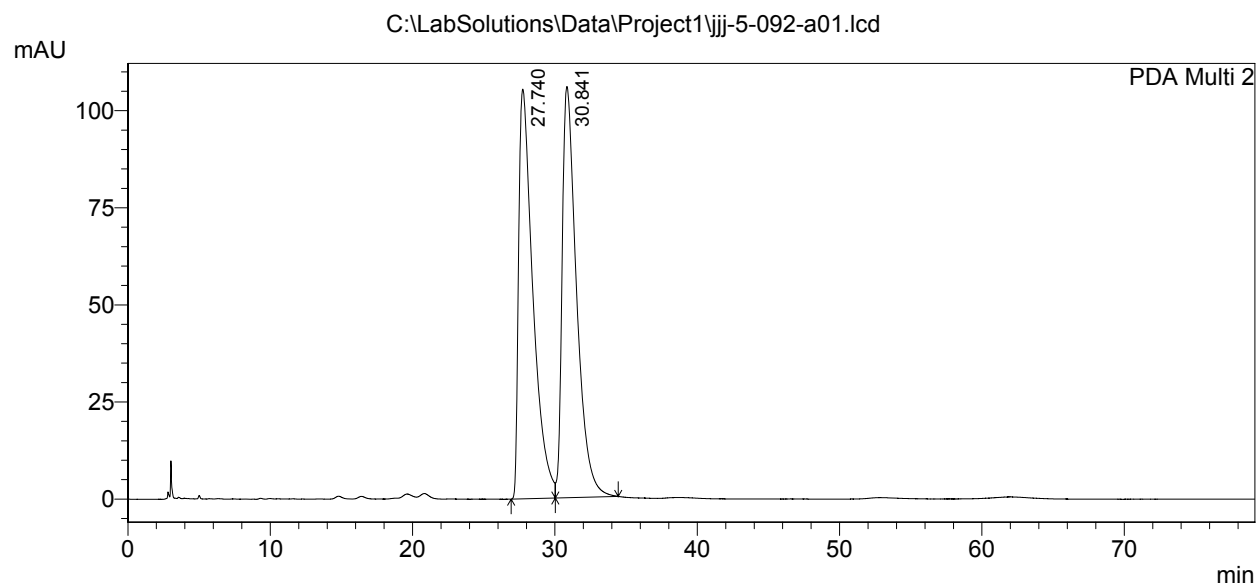
C:\LabSolutions\Data\Project1\jjj-5-092-a01.lcd

Acquired by : Admin
 Sample Name : jjj-5-092-a
 Sample ID : jjj-5-092-a
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-092-a01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/25/2014 9:14:31 AM
 Data Processed : 8/25/2014 10:33:45 AM



5i
methyl ester

<Chromatogram>



PeakTable

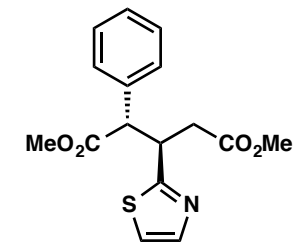
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	27.740	7354240	105481	49.592	49.902
2	30.841	7475392	105894	50.408	50.098
Total		14829632	211375	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\jjj-5-116-a01.lcd

Acquired by : Admin
 Sample Name : jjj-5-116-a
 Sample ID : jjj-5-116-a
 Vial # :
 Injection Volume : 10 uL
 Data File Name : jjj-5-116-a01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/5/2014 5:18:49 PM
 Data Processed : 11/3/2014 4:11:24 PM

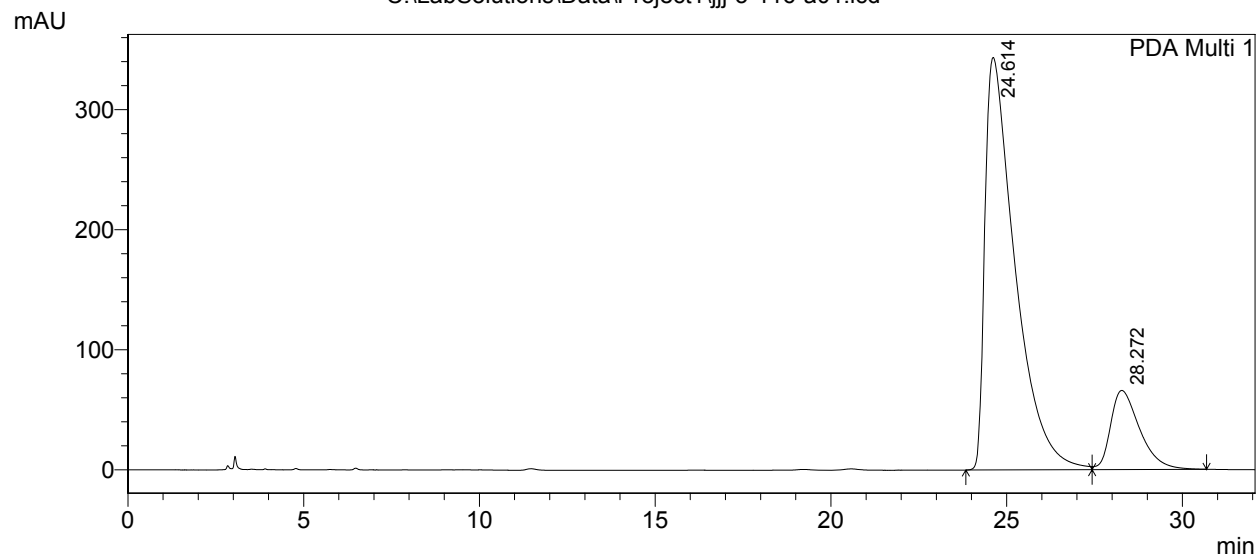


5i

methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\jjj-5-116-a01.lcd



1 PDA Multi 1/215nm 4nm

PeakTable

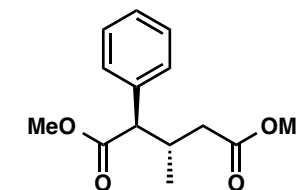
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.614	20444486	343598	84.316	83.911
2	28.272	3802862	65880	15.684	16.089
Total		24247348	409479	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

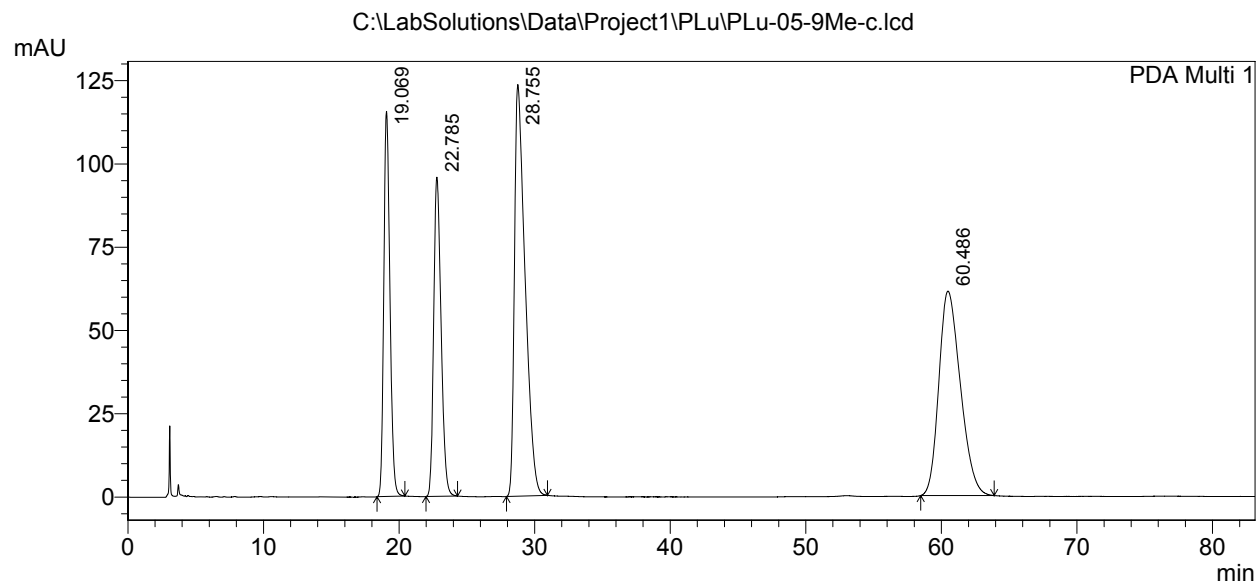
C:\LabSolutions\Data\Project1\PLu\PLu-05-9Me-c.lcd

Acquired by : Admin
 Sample Name : PLu-05-9Me
 Sample ID : PLu-05-9Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-9Me-c.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 4/20/2014 2:07:11 PM
 Data Processed : 4/20/2014 3:30:23 PM



5j
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

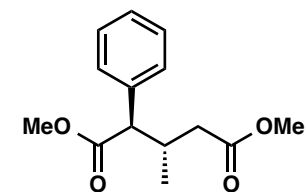
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	19.069	3619833	115637	17.437	29.171
2	22.785	3618619	95801	17.431	24.167
3	28.755	6758381	123600	32.555	31.180
4	60.486	6762800	61371	32.577	15.482
Total		20759634	396409	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

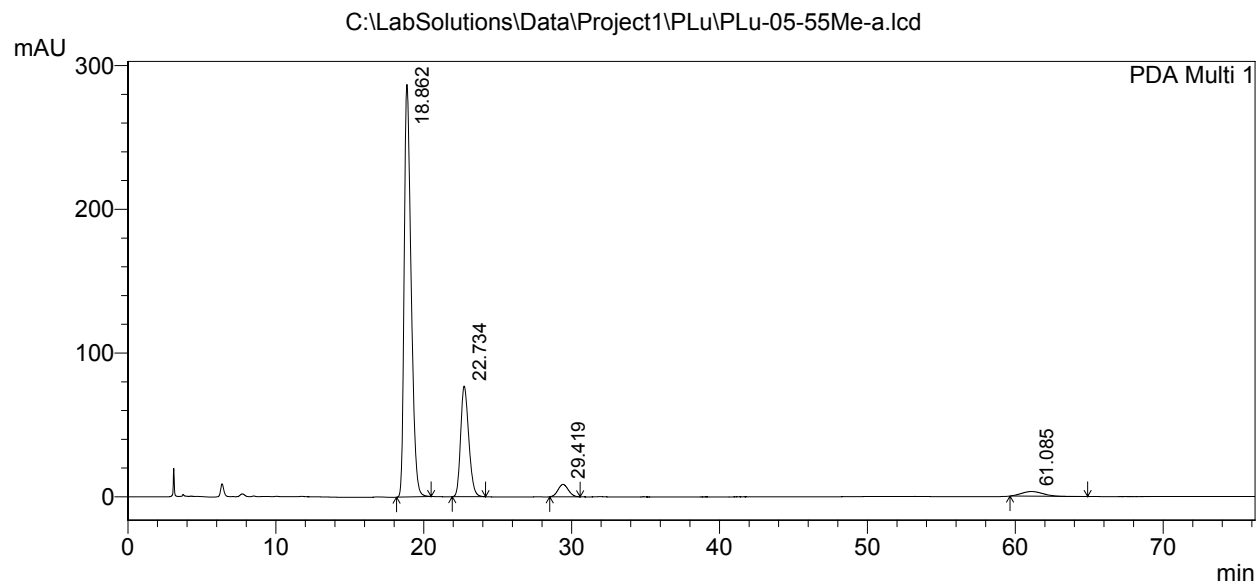
C:\LabSolutions\Data\Project1\PLu\PLu-05-55Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-55Me
 Sample ID : PLu-05-55Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-55Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 4/20/2014 3:34:28 PM
 Data Processed : 4/20/2014 4:50:43 PM



5j
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

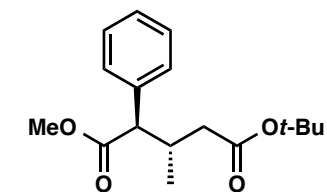
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	18.862	9330831	287018	71.760	76.369
2	22.734	2933770	76965	22.563	20.479
3	29.419	417480	8624	3.211	2.295
4	61.085	320711	3222	2.466	0.857
Total		13002792	375829	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

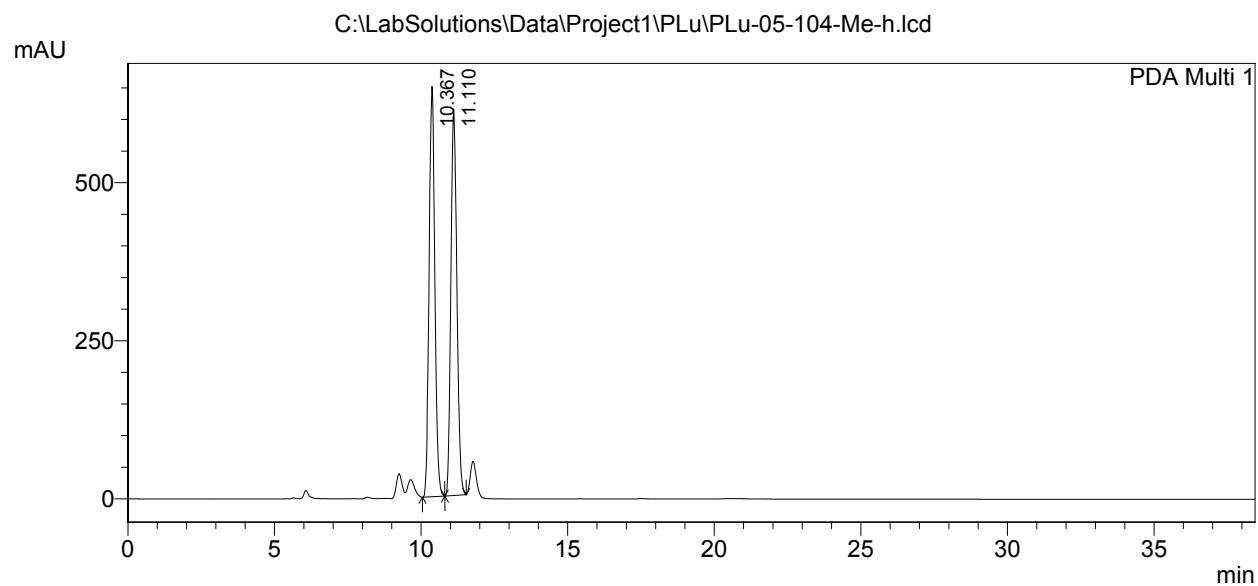
C:\LabSolutions\Data\Project1\PLu\PLu-05-104-Me-h.lcd

Acquired by : Admin
 Sample Name : PLu-05-104-Me
 Sample ID : PLu-05-104-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-104-Me-h.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 5/23/2014 3:08:15 PM
 Data Processed : 5/23/2014 3:46:43 PM



5k
methyl ester

<Chromatogram>



PeakTable

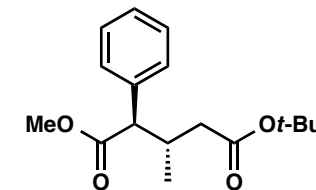
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	10.367	8843368	648961	50.357	51.512
2	11.110	8717836	610865	49.643	48.488
Total		17561204	1259826	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

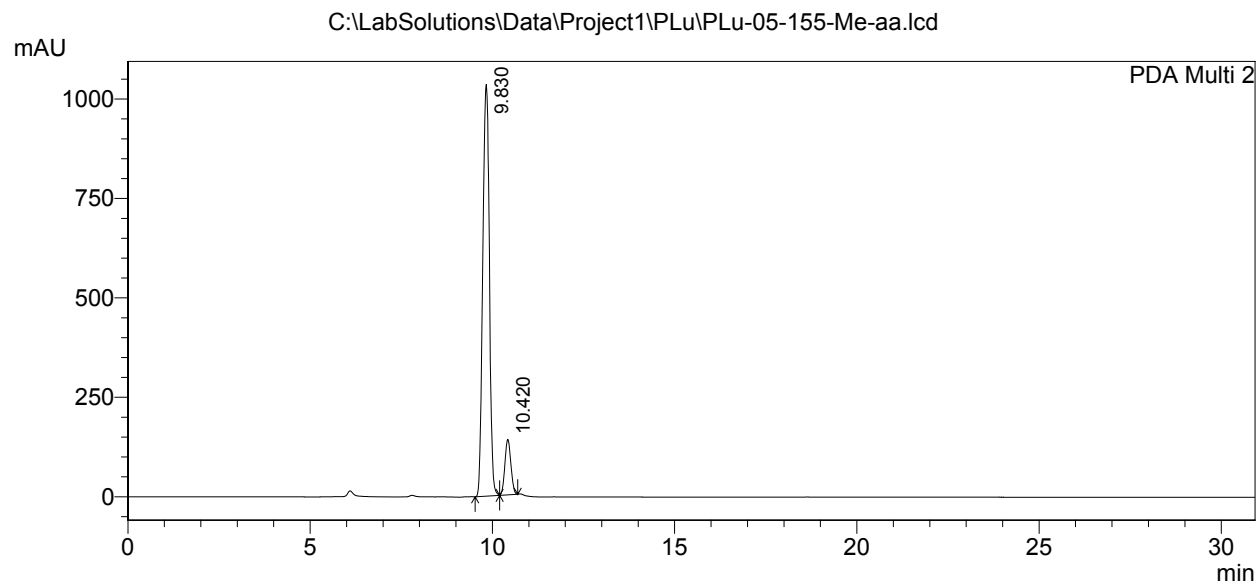
C:\LabSolutions\Data\Project1\PLu\PLu-05-155-Me-aa.lcd

Acquired by : Admin
 Sample Name : PLu-05-155-Me
 Sample ID : PLu-05-155-Me
 Vail # :
 Injection Volume : 5 uL
 Data File Name : PLu-05-155-Me-aa.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 7/14/2014 1:50:51 PM
 Data Processed : 7/14/2014 5:29:30 PM



5k
methyl ester

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

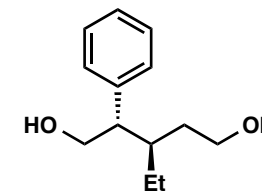
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	9.830	12935327	1035300	89.069	88.126
2	10.420	1587507	139492	10.931	11.874
Total		14522834	1174792	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

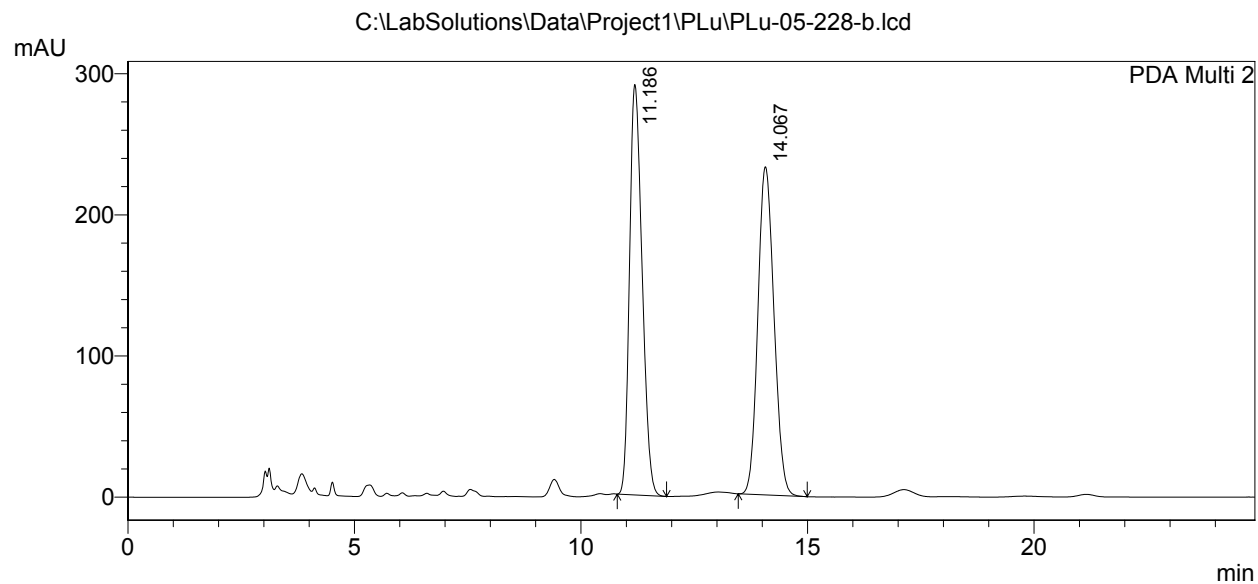
C:\LabSolutions\Data\Project1\PLu\PLu-05-228-b.lcd

Acquired by : Admin
 Sample Name : PLu-05-228
 Sample ID : PLu-05-228
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-228-b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/29/2014 10:42:30 AM
 Data Processed : 8/29/2014 11:07:24 AM



5I
diol

<Chromatogram>



PeakTable

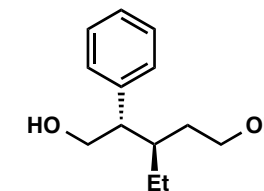
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	11.186	5592472	290782	49.351	55.568
2	14.067	5739619	232509	50.649	44.432
Total		11332091	523291	100.000	100.000

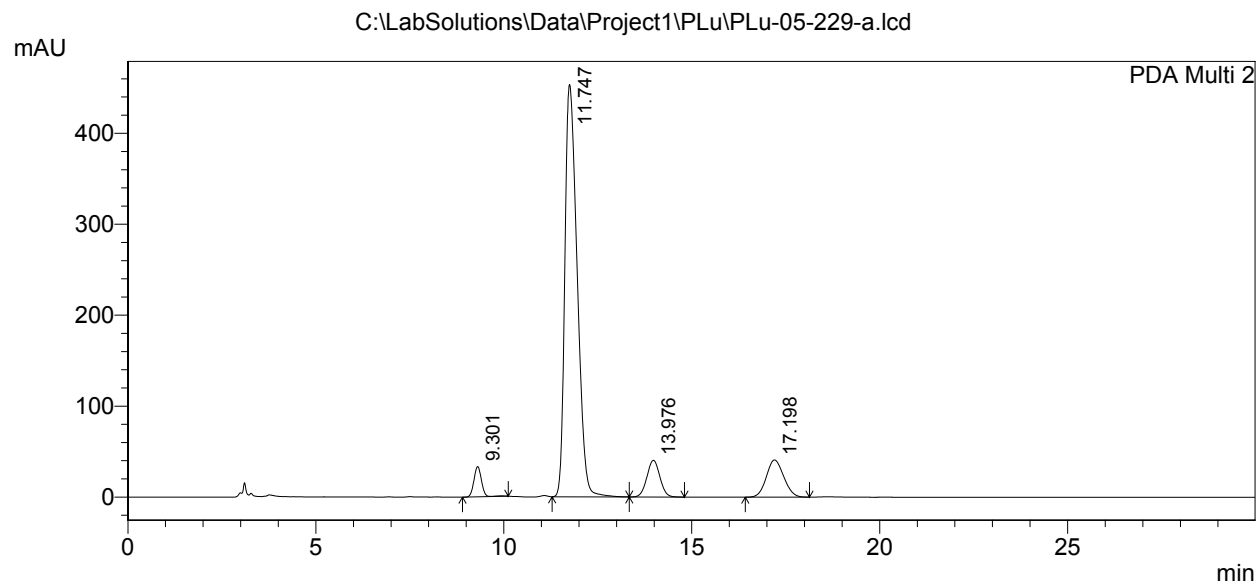
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-229-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-229
 Sample ID : PLu-05-229
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-229-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/2/2014 11:10:52 AM
 Data Processed : 9/2/2014 11:40:52 AM

5I
diol

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

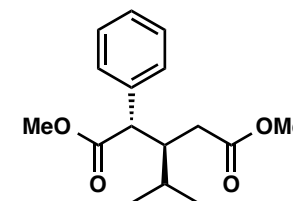
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	9.301	466571	33295	3.576	5.860
2	11.747	10290631	453524	78.878	79.819
3	13.976	970426	40441	7.438	7.118
4	17.198	1318644	40930	10.107	7.204
Total		13046273	568191	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

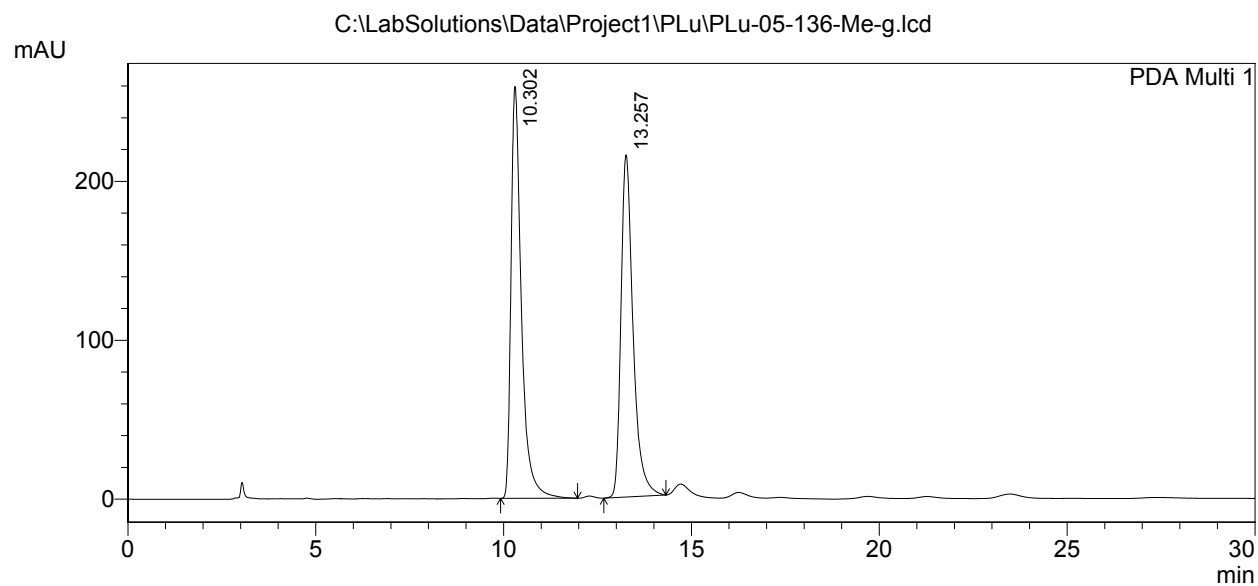
C:\LabSolutions\Data\Project1\PLu\PLu-05-136-Me-g.lcd

Acquired by : Admin
 Sample Name : PLu-05-136-Me
 Sample ID : PLu-05-136-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-136-Me-g.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/17/2014 2:48:35 PM
 Data Processed : 6/17/2014 3:39:16 PM



5m
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

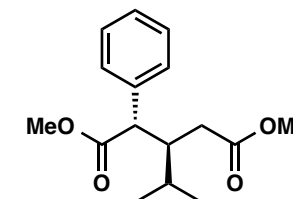
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	10.302	4950742	259193	50.791	54.620
2	13.257	4796524	215343	49.209	45.380
Total		9747266	474536	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

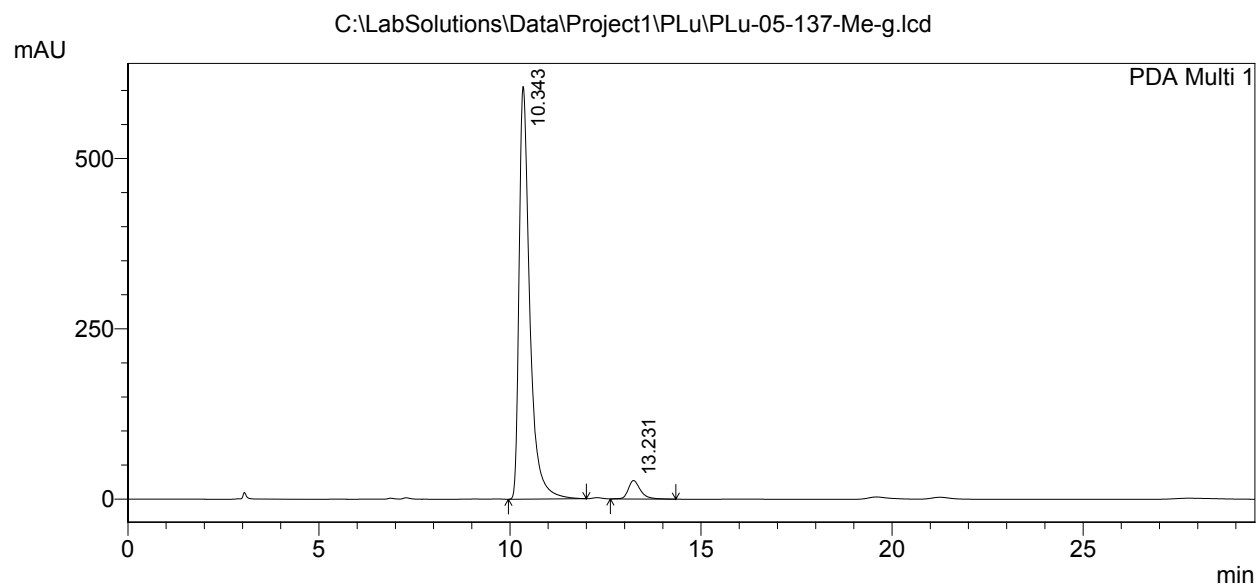
C:\LabSolutions\Data\Project1\PLu\PLu-05-137-Me-g.lcd

Acquired by : Admin
 Sample Name : PLu-05-137-Me
 Sample ID : PLu-05-137-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-137-Me-g.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/17/2014 3:41:01 PM
 Data Processed : 6/17/2014 4:10:32 PM



5m
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

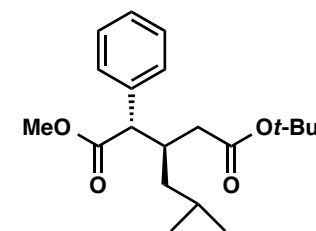
PeakTable

PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	10.343	11734879	605961	95.108	95.713
2	13.231	603594	27144	4.892	4.287
Total		12338473	633105	100.000	100.000

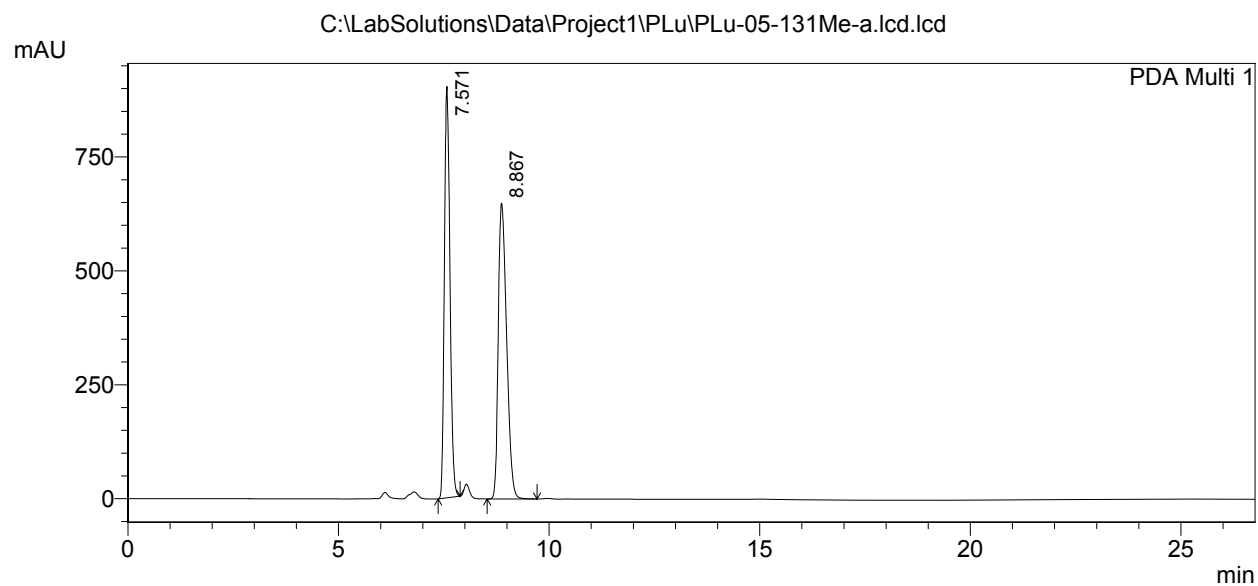
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-131Me-a.lcd.lcd
 Acquired by : Admin
 Sample Name : PLu-05-131Me
 Sample ID : PLu-05-131Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-131Me-a.lcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/11/2014 1:40:54 PM
 Data Processed : 6/11/2014 2:07:40 PM



5n
methyl ester

<Chromatogram>



PeakTable

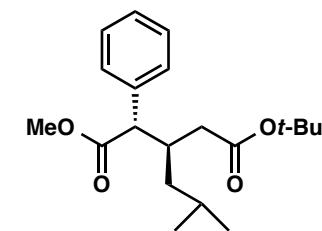
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	7.571	8320303	902814	48.172	58.170
2	8.867	8951858	649222	51.828	41.830
Total		17272161	1552036	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

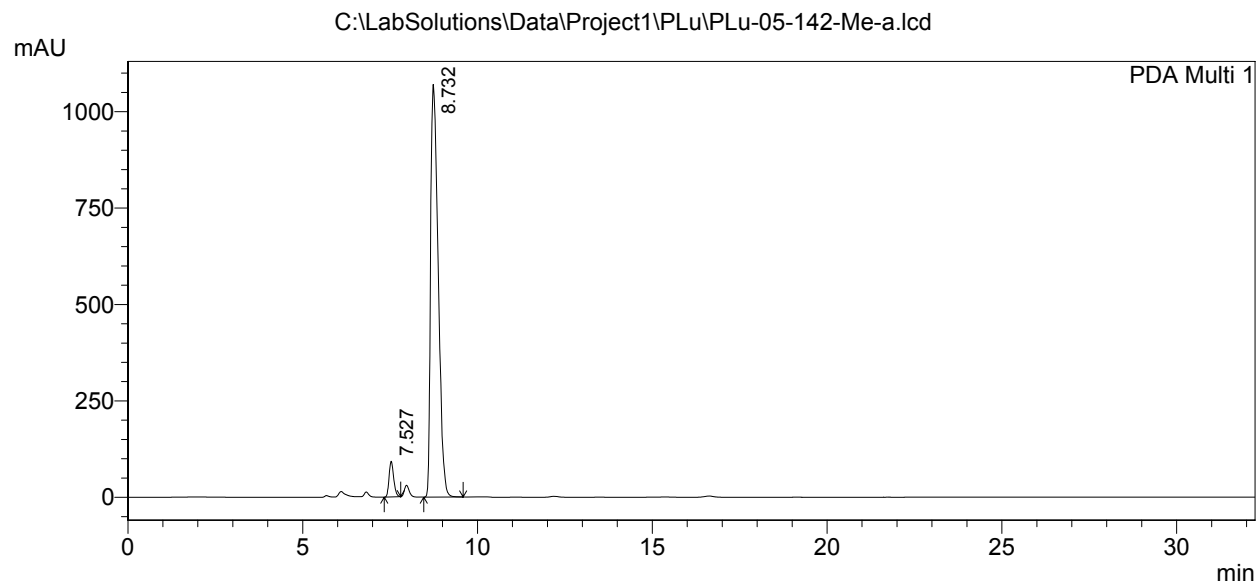
C:\LabSolutions\Data\Project1\PLu\PLu-05-142-Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-142-Me
 Sample ID : PLu-05-142-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-142-Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 6/23/2014 2:46:39 PM
 Data Processed : 6/23/2014 3:18:55 PM



5n
methyl ester

<Chromatogram>



1 PDA Multi 1/215nm 4nm

PeakTable

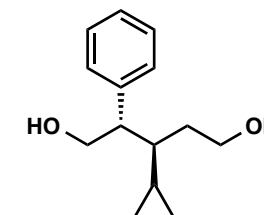
PDA Ch1 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	7.527	851620	92497	5.002	7.955
2	8.732	16173043	1070194	94.998	92.045
Total		17024663	1162691	100.000	100.000

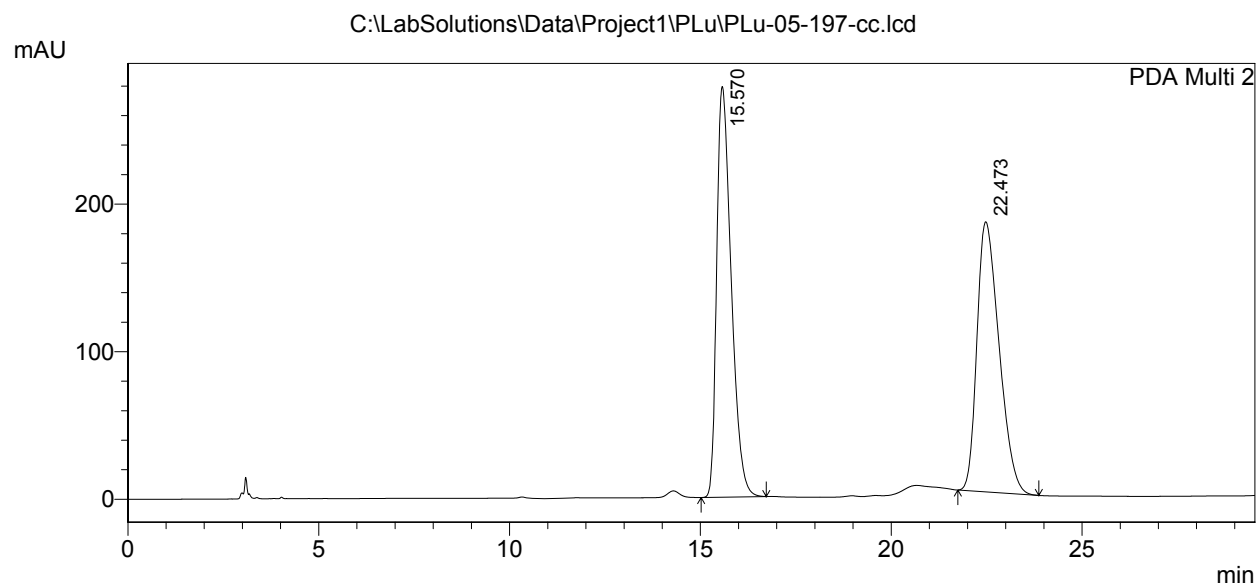
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-197-cc.lcd

Acquired by : Admin
Sample Name : PLu-05-197
Sample ID : PLu-05-197
Vial # :
Injection Volume : 20 uL
Data File Name : PLu-05-197-cc.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 8/7/2014 5:44:51 PM
Data Processed : 8/7/2014 6:14:25 PM

**5o**
diol

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

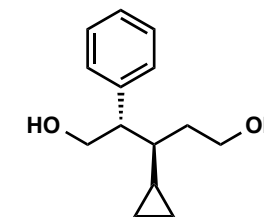
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	15.570	7341650	278382	49.915	60.328
2	22.473	7366742	183069	50.085	39.672
Total		14708393	461451	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

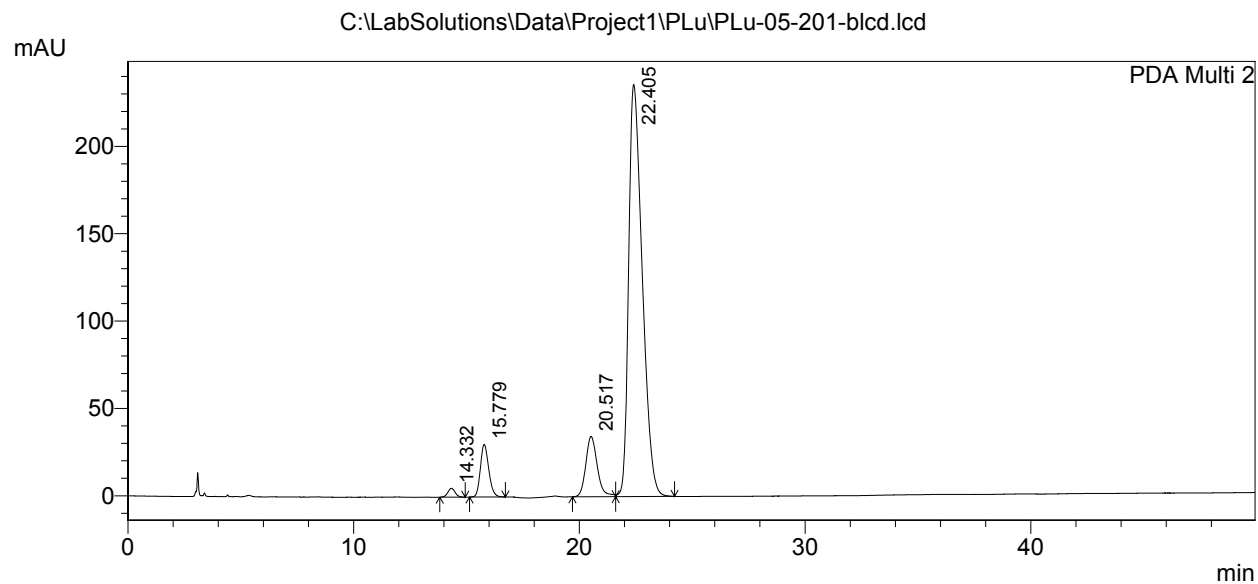
C:\LabSolutions\Data\Project1\PLu\PLu-05-201-blcd.lcd

Acquired by : Admin
 Sample Name : PLu-05-201
 Sample ID : PLu-05-201
 Vial # :
 Injection Volume : 20 uL
 Data File Name : PLu-05-201-blcd.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/7/2014 4:52:59 PM
 Data Processed : 8/7/2014 5:42:58 PM



5o
diol

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

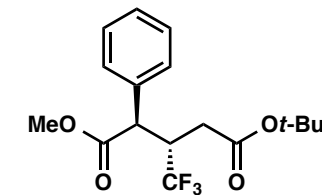
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	14.332	115213	5115	0.963	1.674
2	15.779	773262	30126	6.460	9.858
3	20.517	1217608	34469	10.173	11.279
4	22.405	9863297	235890	82.404	77.189
Total		11969381	305599	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

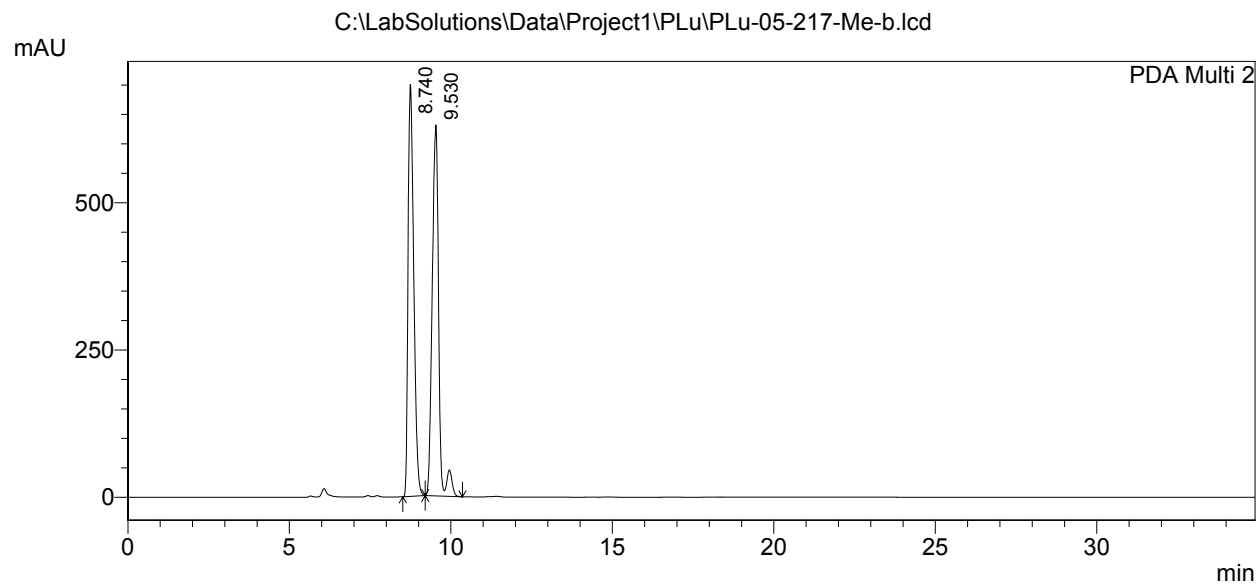
C:\LabSolutions\Data\Project1\PLu\PLu-05-217-Me-b.lcd

Acquired by : Admin
 Sample Name : PLu-05-217-Me
 Sample ID : PLu-05-217-Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-217-Me-b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/20/2014 11:57:53 AM
 Data Processed : 8/20/2014 1:15:14 PM



5p
methyl ester

<Chromatogram>



PeakTable

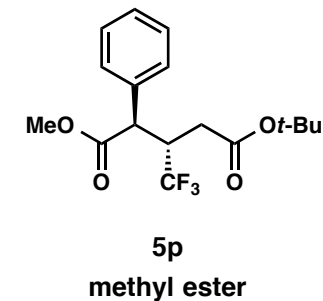
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	8.740	8583740	699512	49.386	52.623
2	9.530	8797193	629783	50.614	47.377
Total		17380933	1329295	100.000	100.000

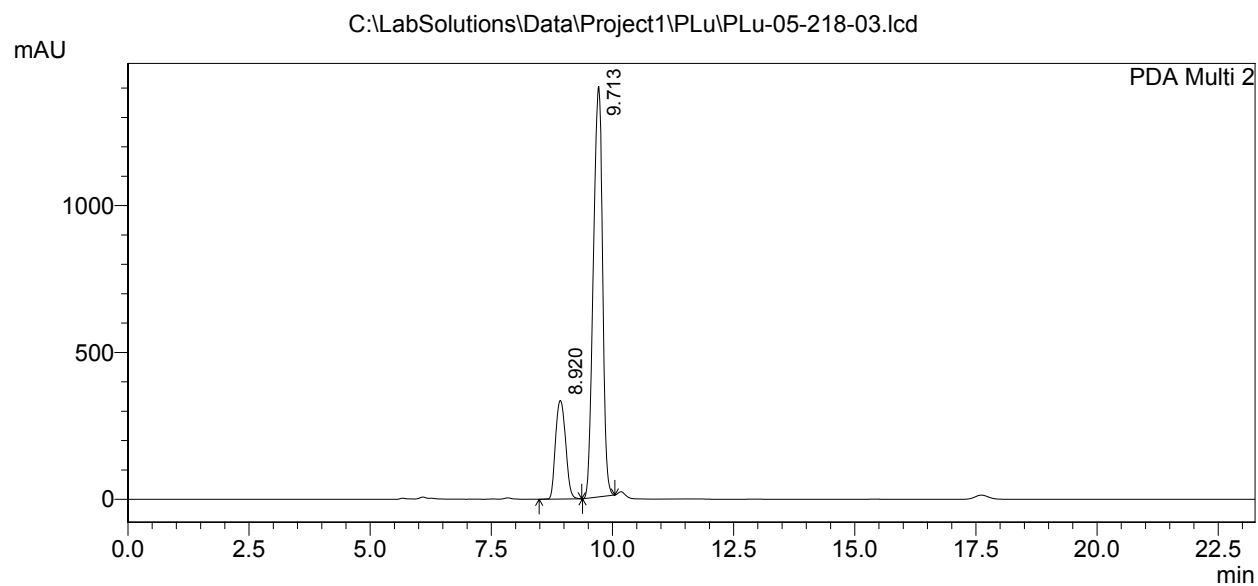
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-218-03.lcd

Acquired by : Admin
 Sample Name : PLu-05-218
 Sample ID : PLu-05-218
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-218-03.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/25/2014 3:56:10 PM
 Data Processed : 8/25/2014 4:19:26 PM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

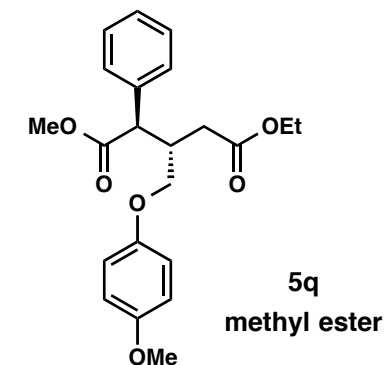
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	8.920	4854231	335687	20.840	19.369
2	9.713	18438530	1397420	79.160	80.631
Total		23292760	1733106	100.000	100.000

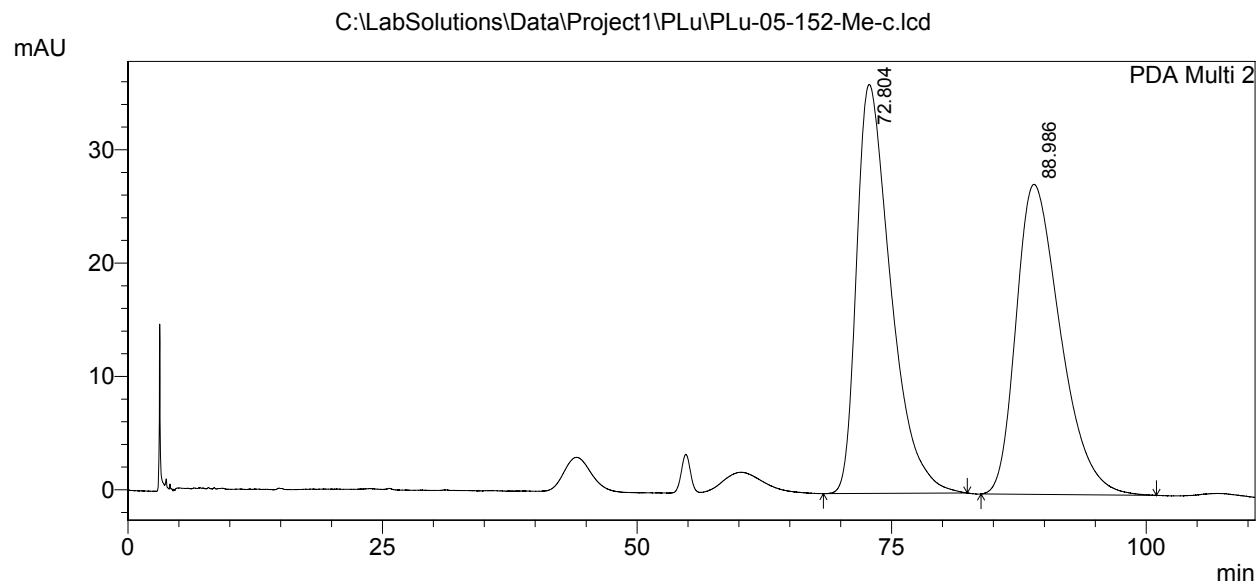
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-152-Me-c.lcd

Acquired by : Admin
 Sample Name : PLu-05-152-Me
 Sample ID : PLu-05-152-Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-152-Me-c.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 7/5/2014 11:43:37 AM
 Data Processed : 9/4/2014 11:50:40 AM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

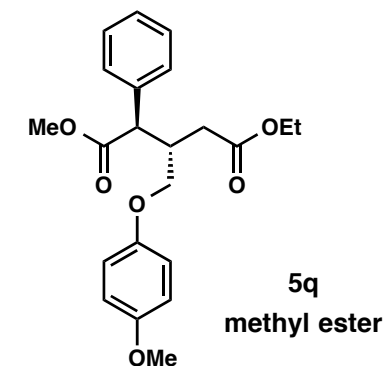
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	72.804	8427327	36087	50.435	56.881
2	88.986	8282036	27356	49.565	43.119
Total		16709364	63443	100.000	100.000

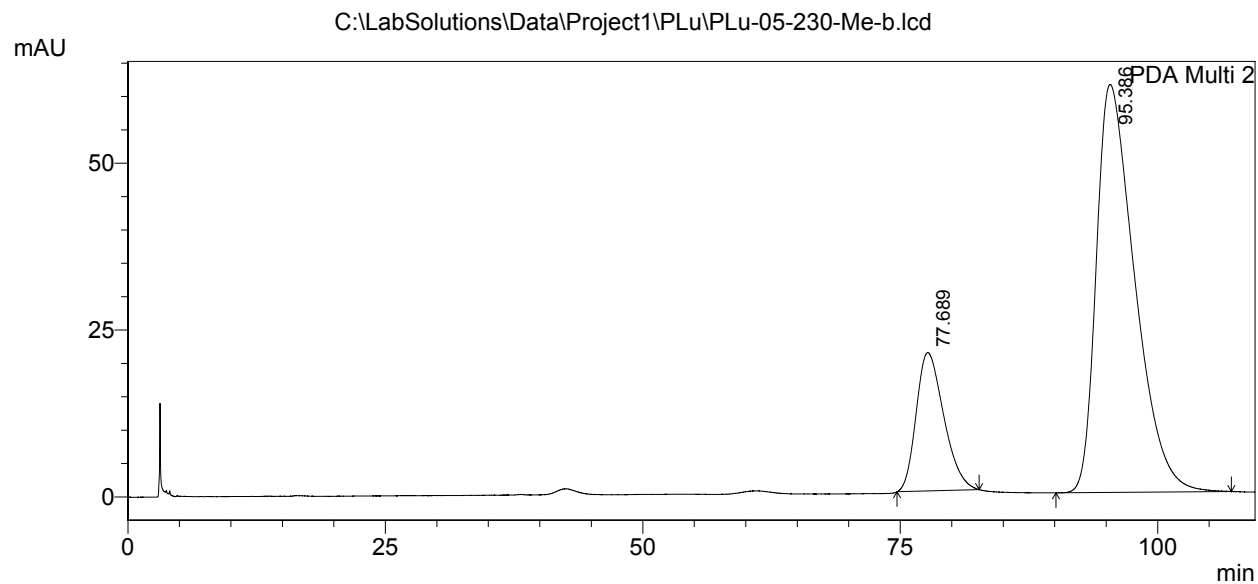
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-230-Me-b.lcd

Acquired by : Admin
 Sample Name : PLu-05-230-Me
 Sample ID : PLu-05-230-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-230-Me-b.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/4/2014 3:00:45 PM
 Data Processed : 11/17/2014 2:52:44 PM



<Chromatogram>



PDA Ch2 215nm 4nm

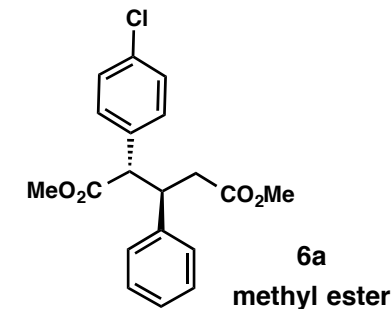
PeakTable

Peak#	Ret. Time	Area	Height	Area %	Height %
1	77.689	3864028	20735	19.606	25.329
2	95.386	15844264	61128	80.394	74.671
Total		19708292	81864	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

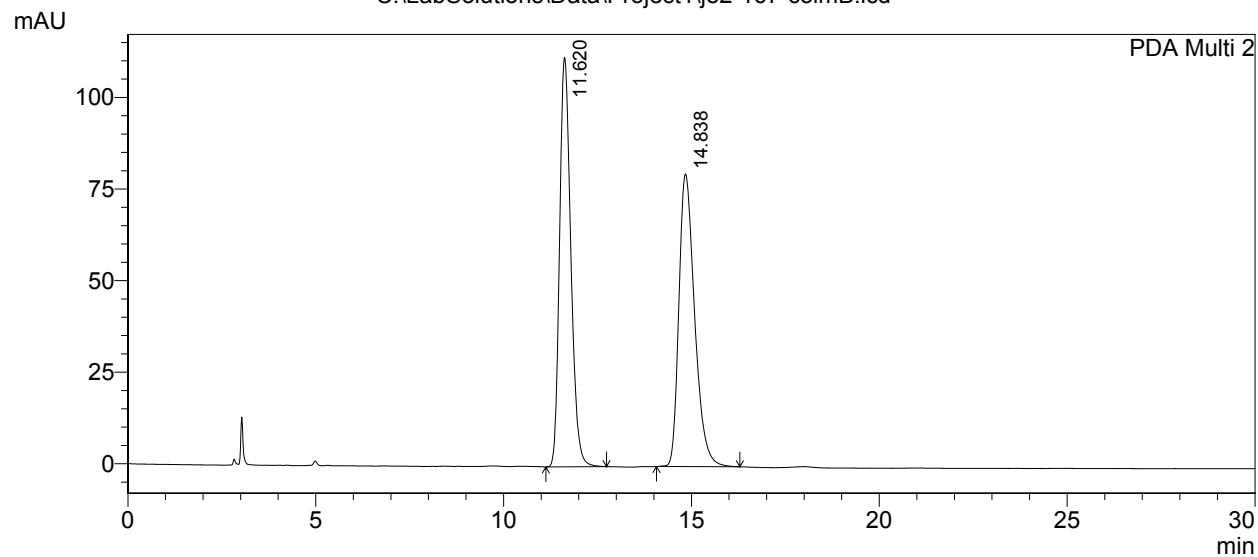
C:\LabSolutions\Data\Project1\je2-167-colmB.lcd

Acquired by : Admin
Sample Name : je2-167-colmB
Sample ID : je2-167-colmB
Vial # :
Injection Volume : 10 uL
Data File Name : je2-167-colmB.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 7/15/2014 10:15:53 AM
Data Processed : 7/15/2014 11:26:46 AM



<Chromatogram>

C:\LabSolutions\Data\Project1\je2-167-colmB.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

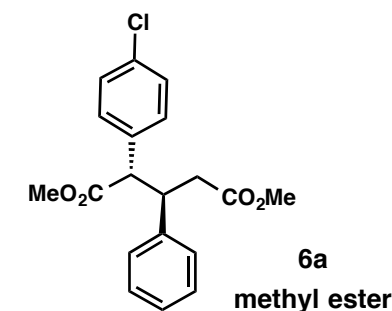
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	11.620	2322689	111759	49.969	58.316
2	14.838	2325606	79884	50.031	41.684
Total		4648295	191643	100.000	100.000

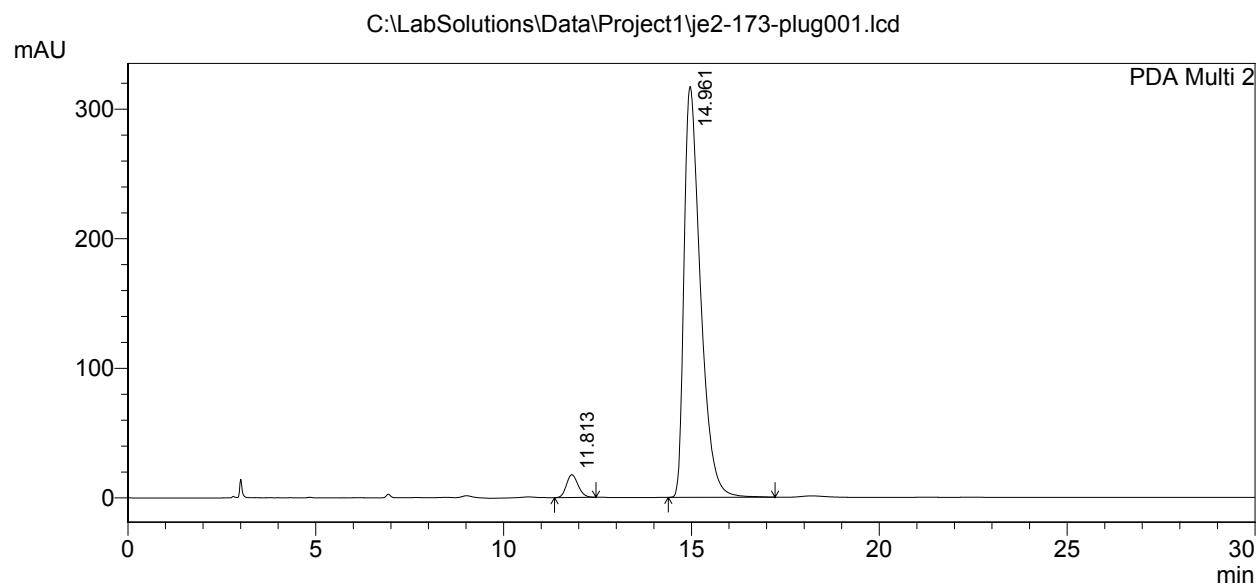
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-173-plug001.lcd

Acquired by : Admin
Sample Name : je2-173-plug
Sample ID : je2-173-plug
Vial # :
Injection Volume : 10 uL
Data File Name : je2-173-plug001.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 7/20/2014 8:18:26 PM
Data Processed : 7/20/2014 10:14:43 PM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

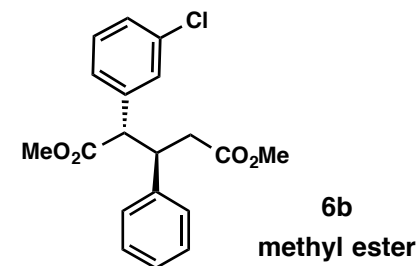
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	11.813	380351	17574	3.800	5.251
2	14.961	9629562	317082	96.200	94.749
Total		10009912	334656	100.000	100.000

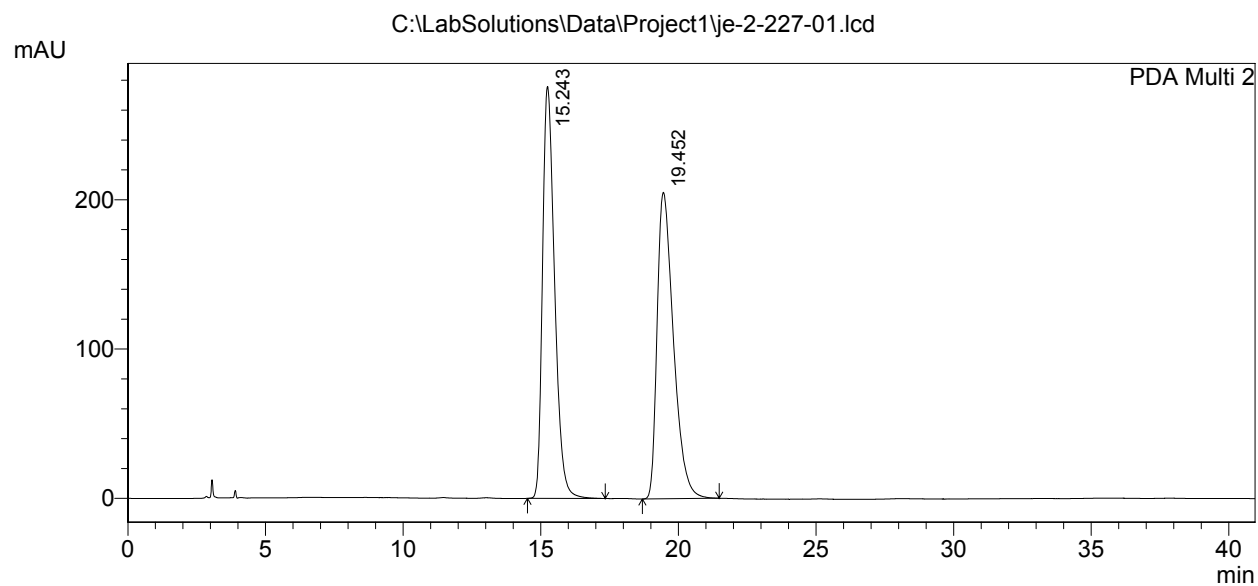
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je-2-227-01.lcd

Acquired by : Admin
 Sample Name : je-2-227
 Sample ID : je-2-227
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je-2-227-01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 11/19/2014 10:31:32 AM
 Data Processed : 11/19/2014 11:12:30 AM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

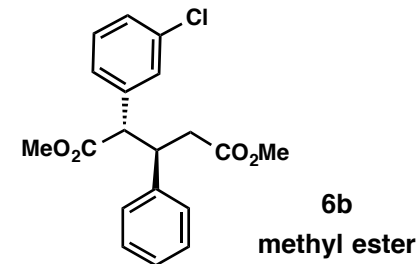
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	15.243	8417846	275903	49.908	57.344
2	19.452	8448715	205232	50.092	42.656
Total		16866561	481135	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

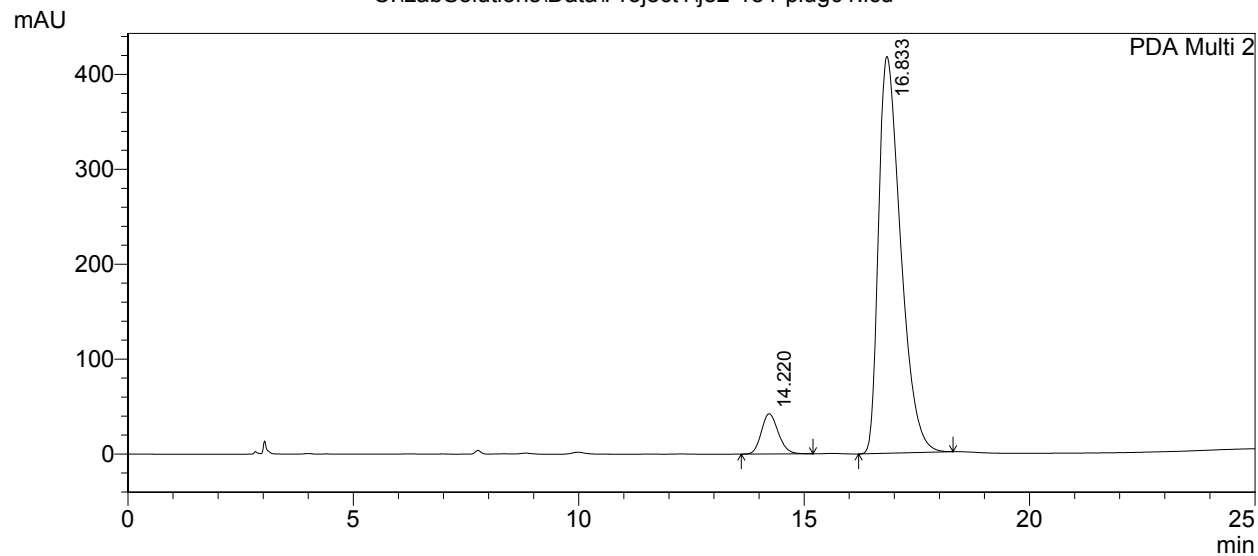
C:\LabSolutions\Data\Project1\je2-184-plug01.lcd

Acquired by : Admin
 Sample Name : je2-184-plug
 Sample ID : je2-184-plug
 Vial # :
 Injection Volume : 20 uL
 Data File Name : je2-184-plug01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/8/2014 4:09:44 PM
 Data Processed : 8/8/2014 5:15:38 PM



<Chromatogram>

C:\LabSolutions\Data\Project1\je2-184-plug01.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

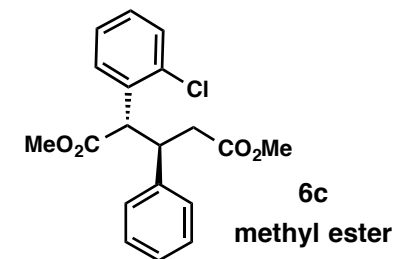
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	14.220	1108241	42468	7.196	9.219
2	16.833	14292751	418177	92.804	90.781
Total		15400992	460645	100.000	100.000

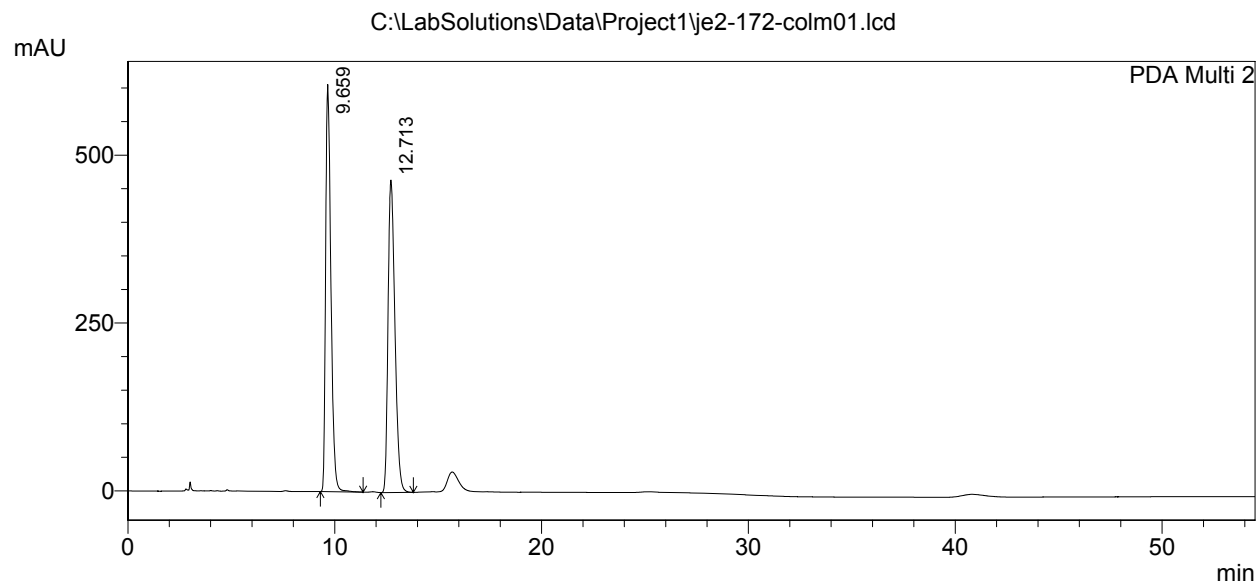
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-172-colm01.lcd

Acquired by : Admin
 Sample Name : je2-172-colm
 Sample ID : je2-172-colm
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je2-172-colm01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 7/22/2014 7:35:08 AM
 Data Processed : 7/22/2014 8:29:40 AM



<Chromatogram>



PeakTable

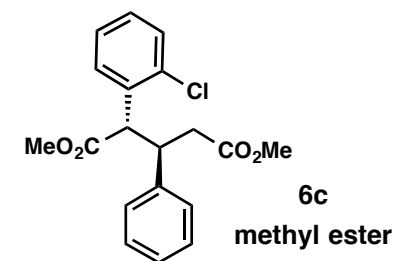
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	9.659	10760745	606292	50.035	56.582
2	12.713	10745704	465228	49.965	43.418
Total		21506449	1071520	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

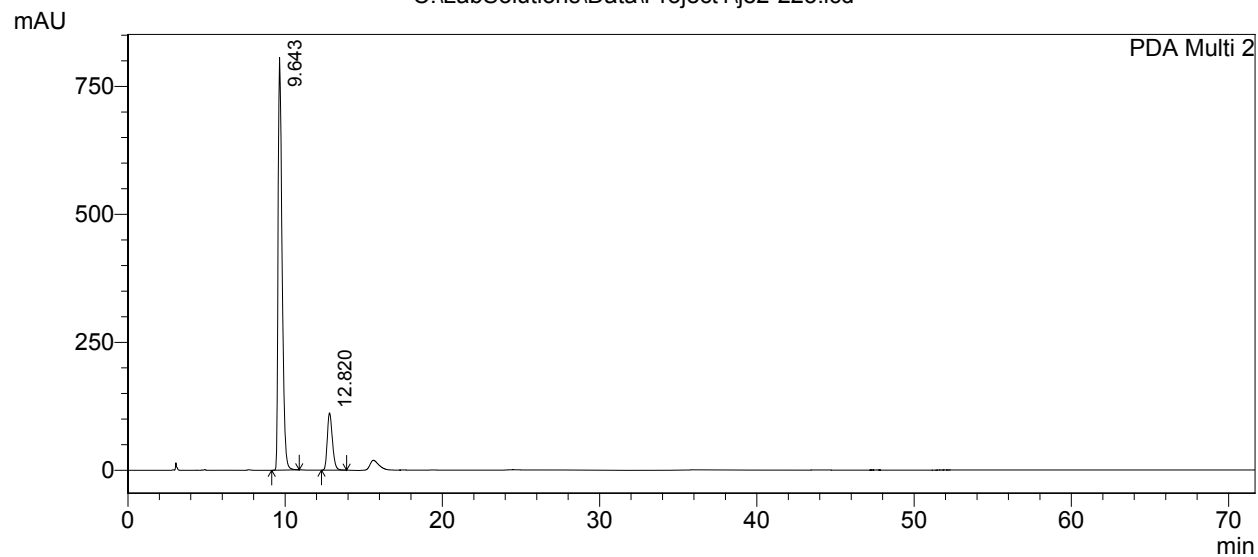
C:\LabSolutions\Data\Project1\je2-223.lcd

Acquired by : Admin
 Sample Name : je2-223
 Sample ID : je2-223
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je2-223.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 10/8/2014 5:30:25 PM
 Data Processed : 10/8/2014 6:42:07 PM



<Chromatogram>

C:\LabSolutions\Data\Project1\je2-223.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

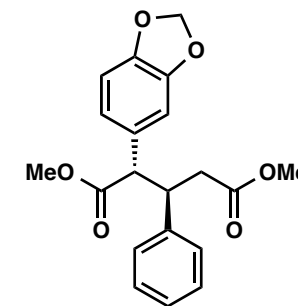
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	9.643	14349397	806296	85.046	87.797
2	12.820	2523082	112073	14.954	12.203
Total		16872480	918368	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

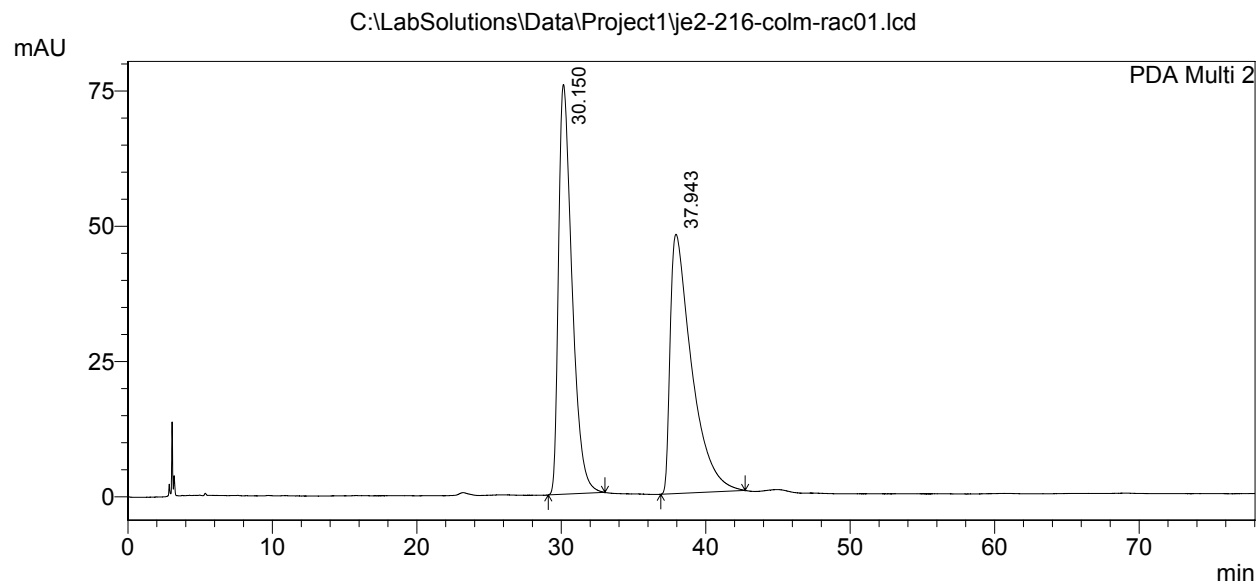
C:\LabSolutions\Data\Project1\je2-216-colm-rac01.lcd

Acquired by : Admin
 Sample Name : je2-214-colm-rac
 Sample ID : je2-214-colm-rac
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je2-216-colm-rac01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 10/4/2014 10:50:40 AM
 Data Processed : 10/4/2014 12:08:44 PM



6d
methyl ester

<Chromatogram>



PeakTable

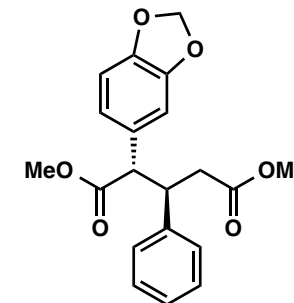
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	30.150	4914476	75717	49.859	61.249
2	37.943	4942323	47905	50.141	38.751
Total		9856799	123623	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

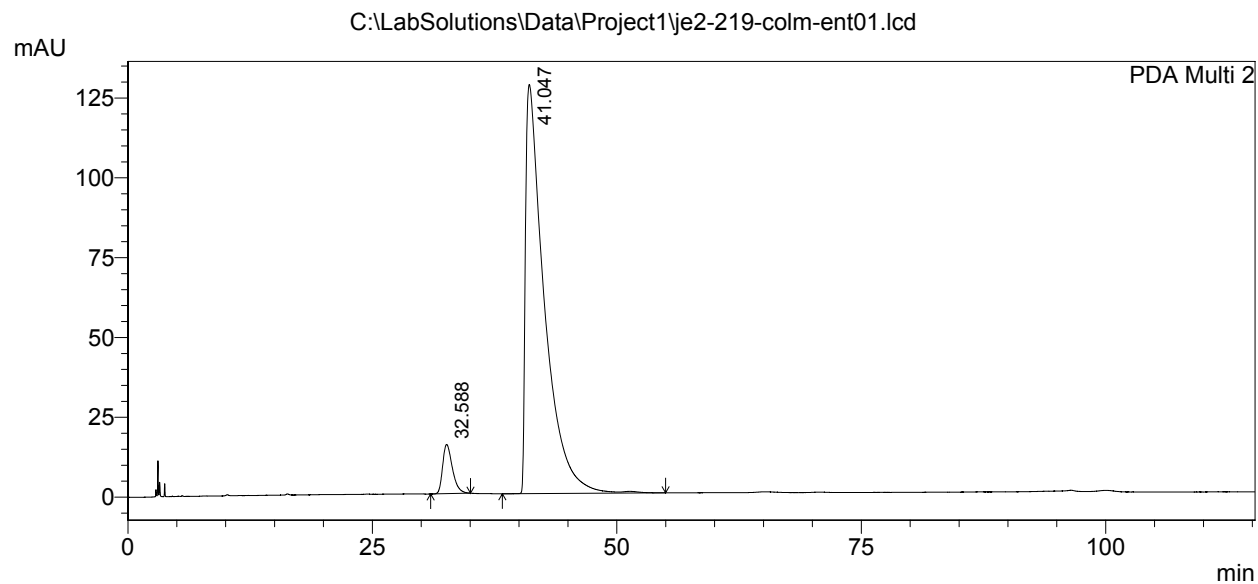
C:\LabSolutions\Data\Project1\je2-219-colm-ent01.lcd

Acquired by : Admin
 Sample Name : je2-219-colm-ent
 Sample ID : jjj-5-156-a
 Vail # :
 Injection Volume : 10 uL
 Data File Name : je2-219-colm-ent01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 10/2/2014 2:00:17 PM
 Data Processed : 10/2/2014 3:55:36 PM



6d
methyl ester

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

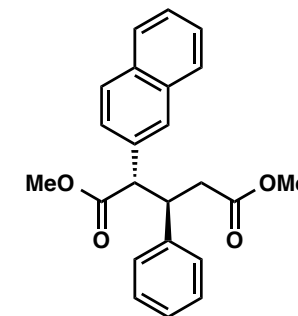
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	32.588	1070586	15419	5.869	10.741
2	41.047	17170183	128130	94.131	89.259
Total		18240769	143549	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

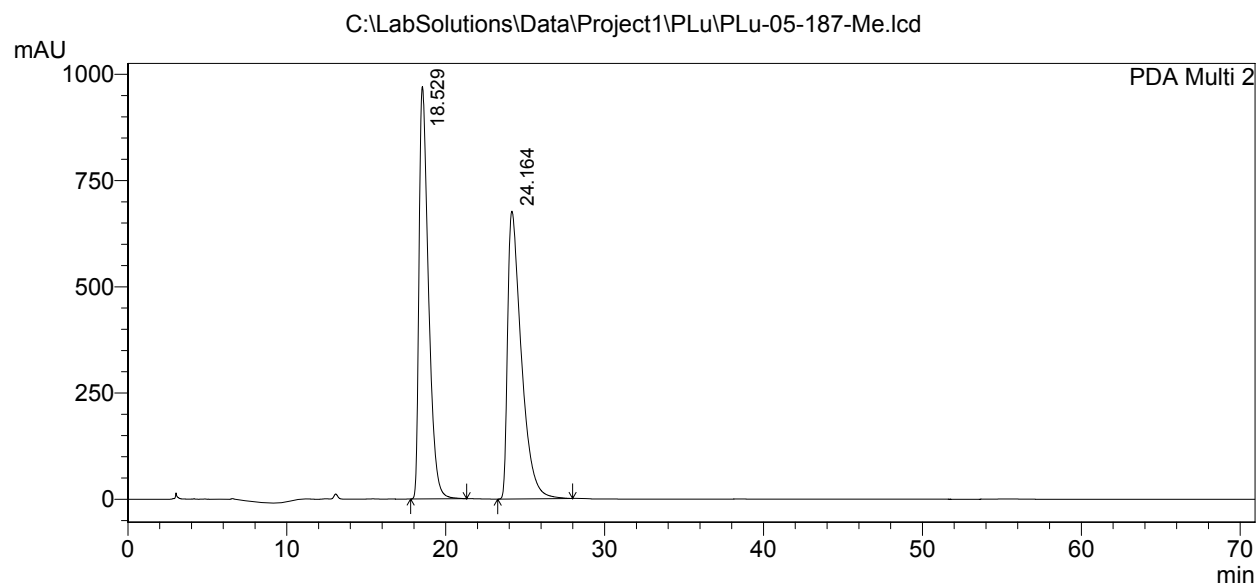
C:\LabSolutions\Data\Project1\PLu\PLu-05-187-Me.lcd

Acquired by : Admin
 Sample Name : PLu-05-187-Me
 Sample ID : PLu-05-187-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-187-Me.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 7/29/2014 11:38:41 AM
 Data Processed : 7/30/2014 8:52:58 AM



6e
methyl ester

<Chromatogram>



PeakTable

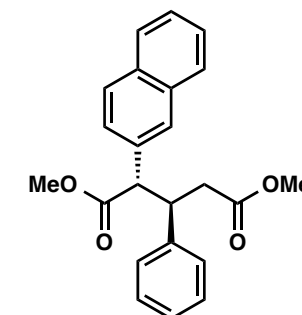
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	18.529	40020543	970681	49.602	58.897
2	24.164	40662801	677426	50.398	41.103
Total		80683344	1648106	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

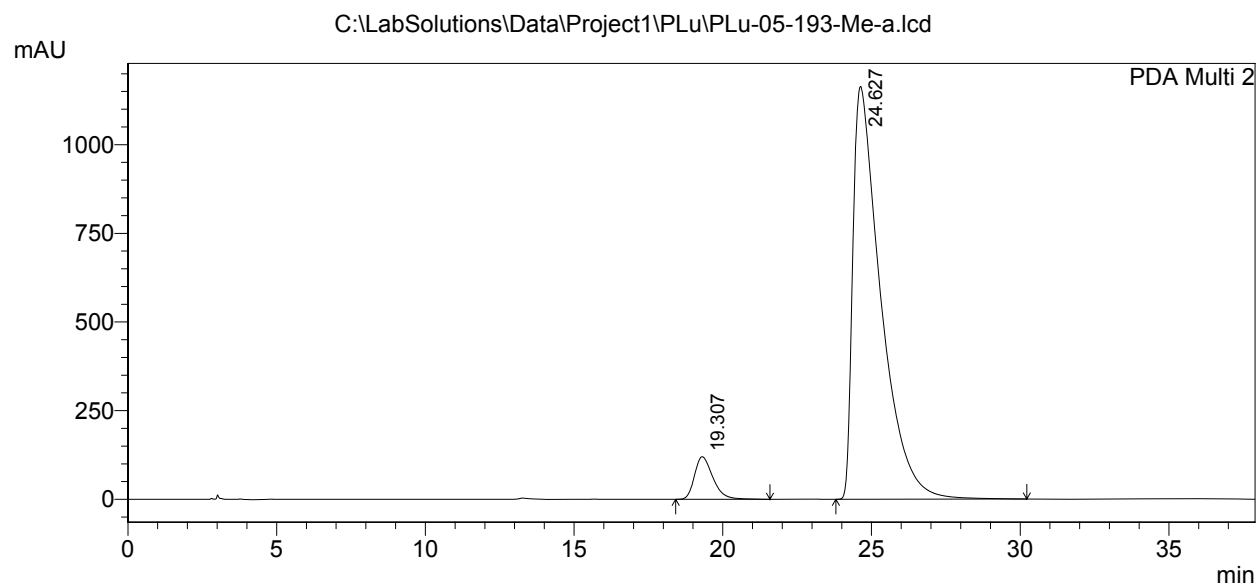
C:\LabSolutions\Data\Project1\PLu\PLu-05-193-Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-193-Me
 Sample ID : PLu-05-193-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-193-Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/2/2014 1:29:00 PM
 Data Processed : 8/2/2014 2:06:55 PM



6e
methyl ester

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

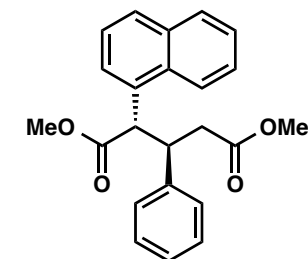
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	19.307	5138993	119983	6.344	9.344
2	24.627	75869004	1164131	93.656	90.656
Total		81007996	1284113	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

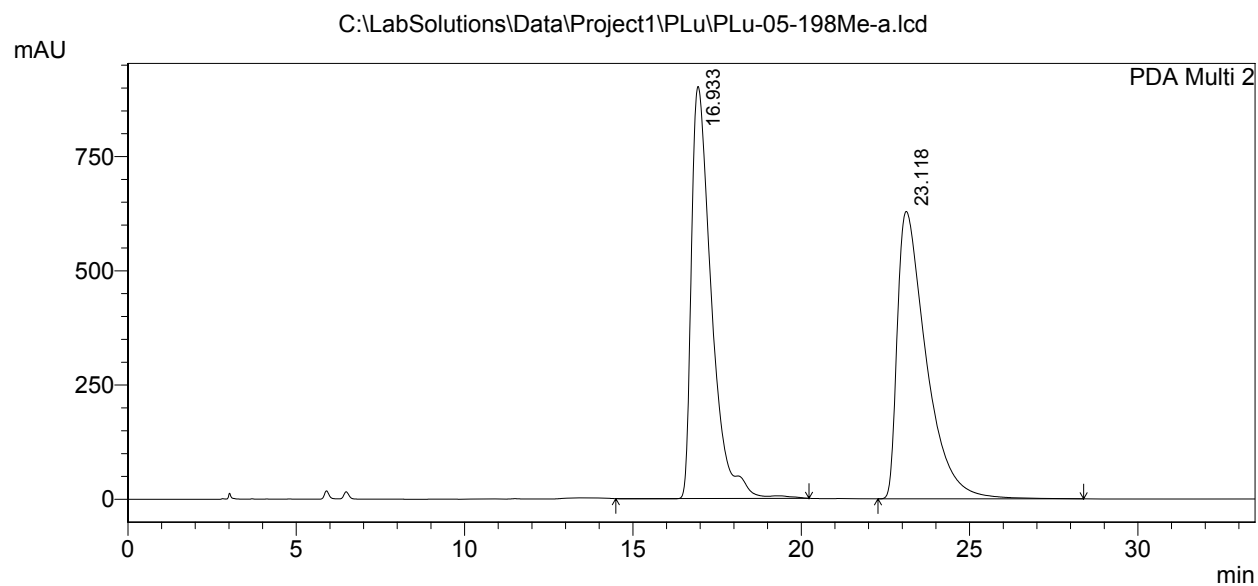
C:\LabSolutions\Data\Project1\PLu\PLu-05-198Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-198Me
 Sample ID : PLu-05-198Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-198Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/6/2014 8:41:55 AM
 Data Processed : 8/6/2014 9:15:26 AM



6f
methyl ester

<Chromatogram>



PeakTable

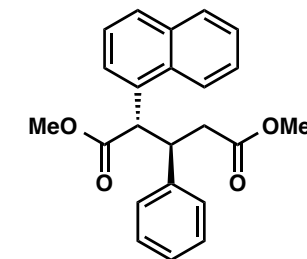
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	16.933	37343200	901742	49.865	58.907
2	23.118	37545465	629040	50.135	41.093
Total		74888665	1530781	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

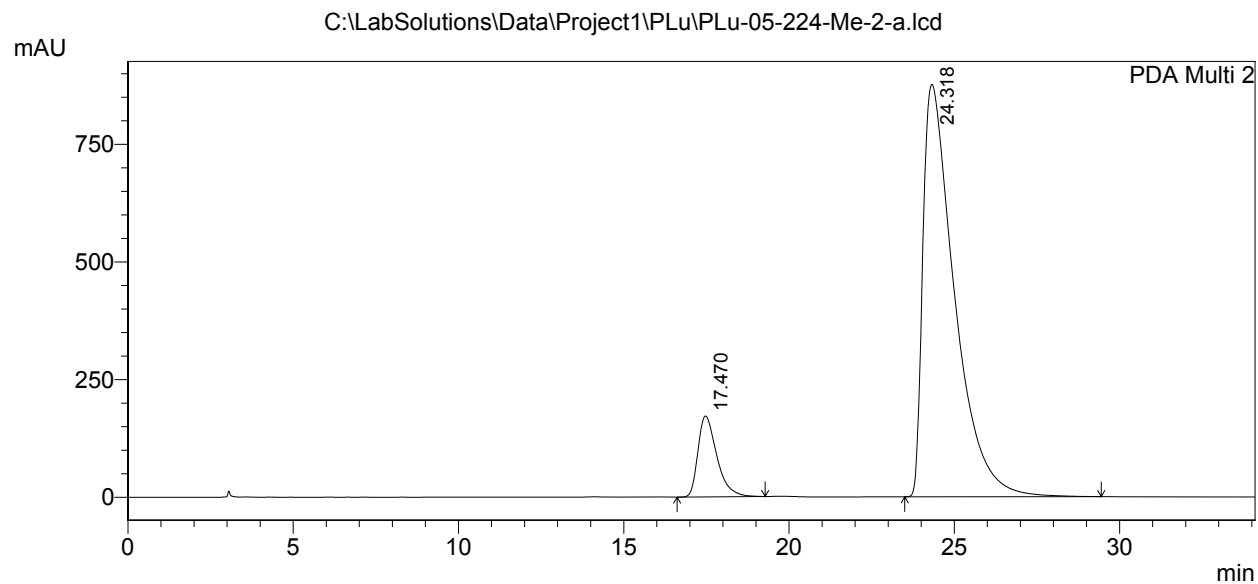
C:\LabSolutions\Data\Project1\PLu\PLu-05-224-Me-2-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-224-Me-2
 Sample ID : PLu-05-224-Me-2
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-224-Me-2-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/2/2014 10:01:31 AM
 Data Processed : 9/2/2014 10:35:39 AM



6f
methyl ester

<Chromatogram>



1 PDA Multi 2/215nm 4nm

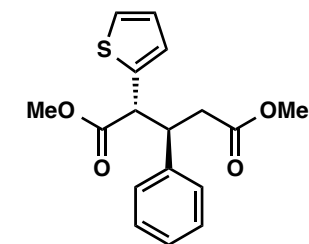
PeakTable

PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	17.470	6833972	171837	10.524	16.400
2	24.318	58101912	875966	89.476	83.600
Total		64935884	1047803	100.000	100.000

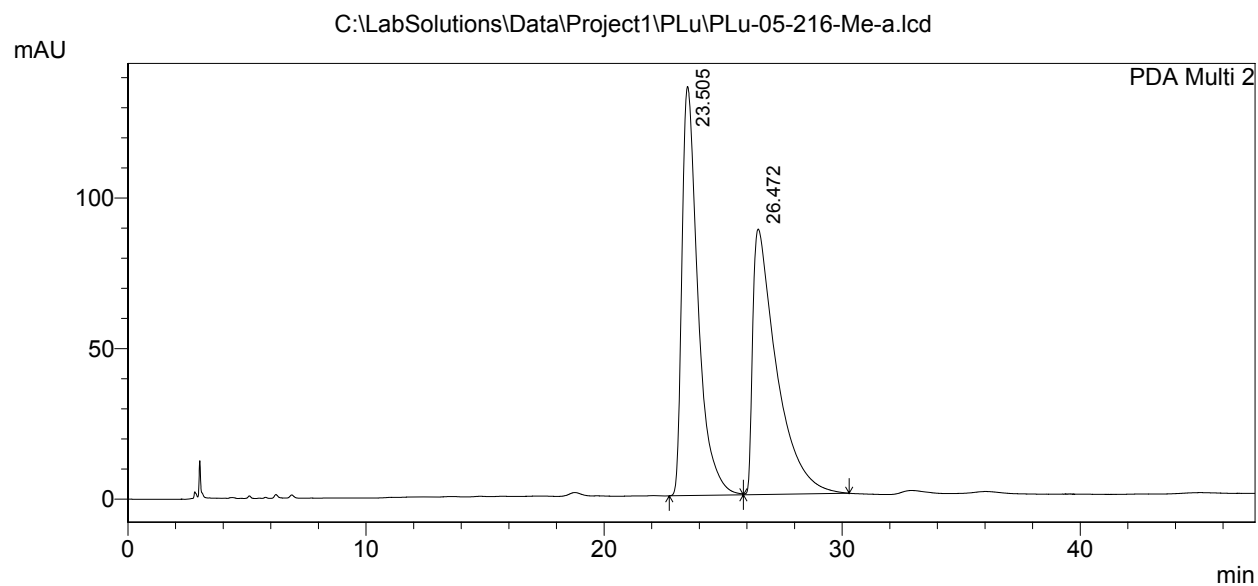
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-216-Me-a.lcd
Acquired by : Admin
Sample Name : PLu-05-216-Me
Sample ID : PLu-05-216-Me
Vial # :
Injection Volume : 10 uL
Data File Name : PLu-05-216-Me-a.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 8/20/2014 10:03:49 AM
Data Processed : 8/20/2014 10:51:11 AM



6g
methyl ester

<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

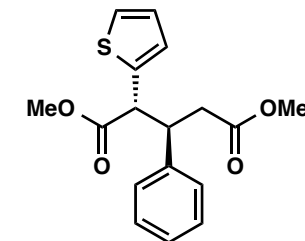
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	23.505	6373786	135920	50.938	60.644
2	26.472	6138927	88207	49.062	39.356
Total		12512713	224127	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-219-c.lcd

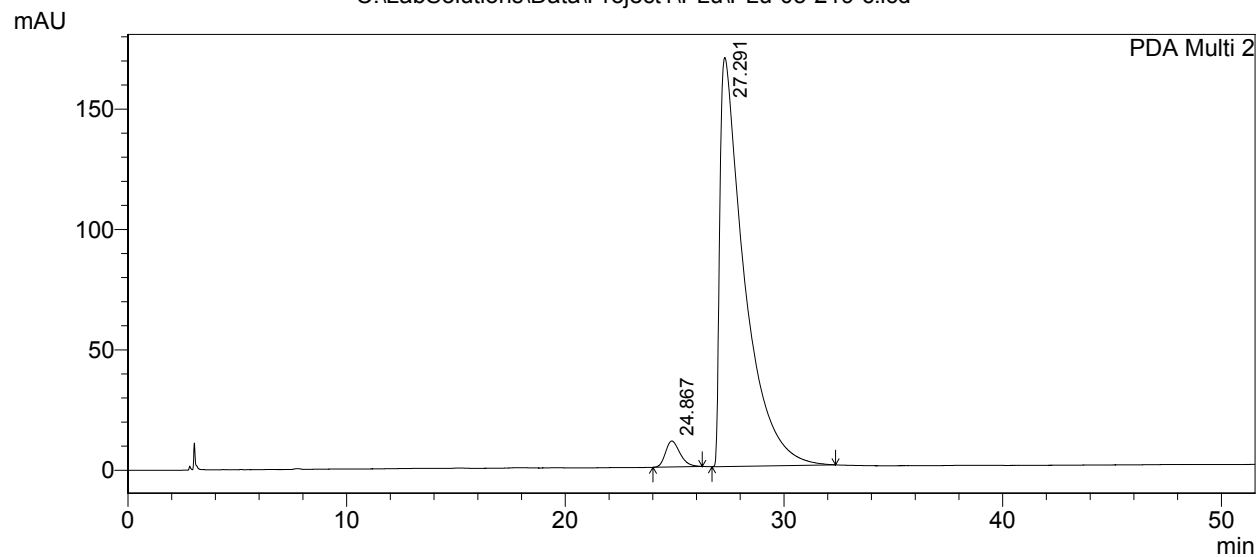
Acquired by : Admin
 Sample Name : PLu-05-219
 Sample ID : PLu-05-219
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-219-c.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/23/2014 1:13:41 PM
 Data Processed : 8/23/2014 2:05:16 PM



6g
methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\PLu\PLu-05-219-c.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

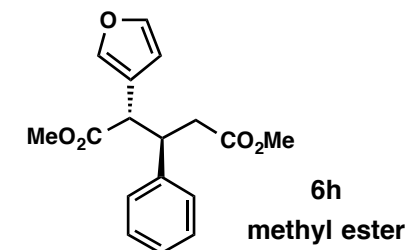
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	24.867	497932	10792	3.639	5.972
2	27.291	13183422	169923	96.361	94.028
Total		13681353	180715	100.000	100.000

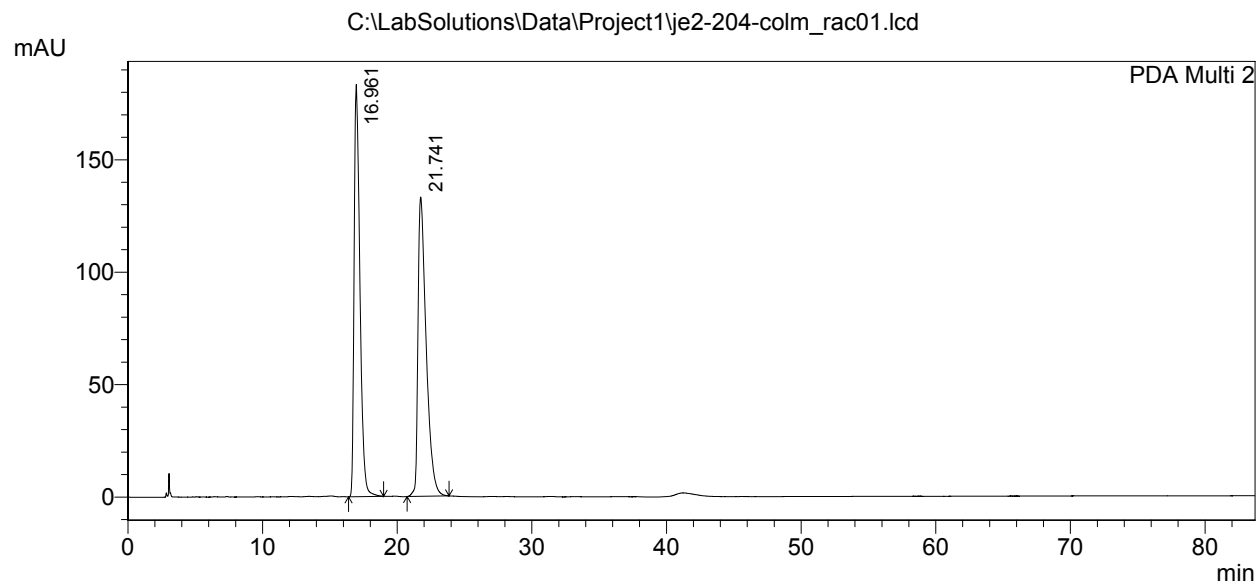
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-204-colm_rac01.lcd

Acquired by : Admin
 Sample Name : je2-204-colm_rac
 Sample ID : je2-204-colm_rac
 Vail # :
 Injection Volume : 10 uL
 Data File Name : je2-204-colm_rac01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/15/2014 3:49:28 PM
 Data Processed : 9/15/2014 5:13:13 PM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

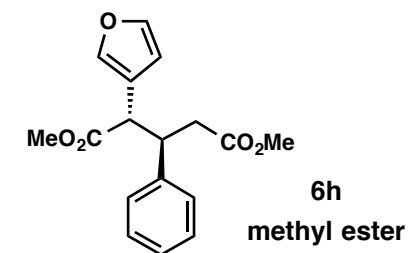
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	16.961	5484566	183282	49.404	57.940
2	21.741	5616925	133048	50.596	42.060
Total		11101491	316330	100.000	100.000

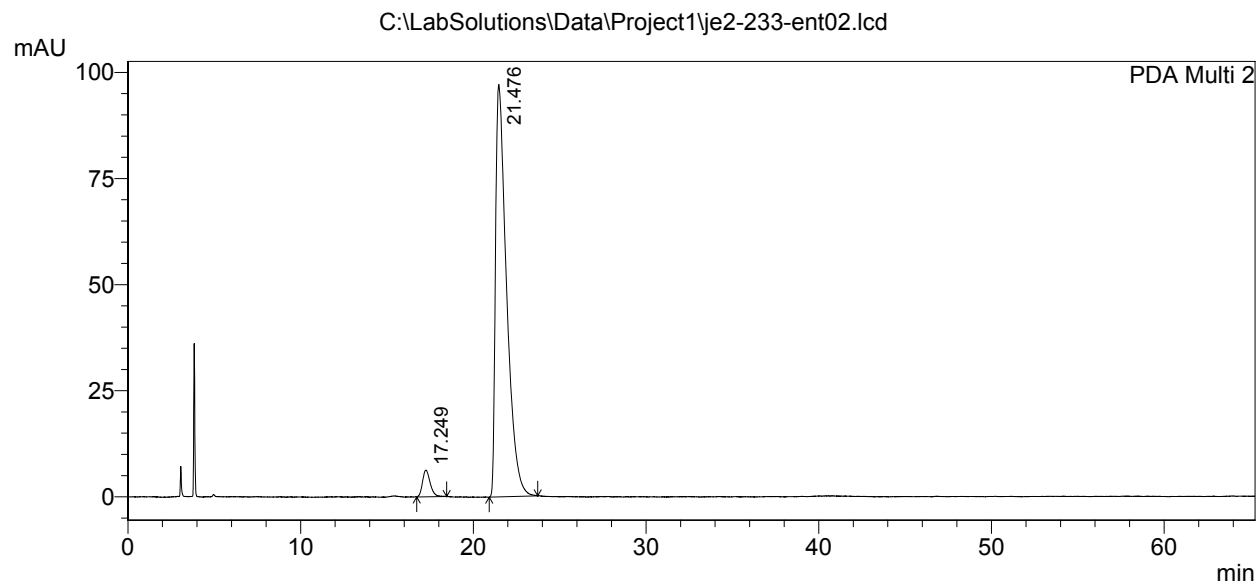
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-233-ent02.lcd

Acquired by : Admin
 Sample Name : je2-233-ent
 Sample ID : je2-233-ent
 Vail # :
 Injection Volume : 10 uL
 Data File Name : je2-233-ent02.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 11/12/2014 9:06:25 PM
 Data Processed : 11/12/2014 10:11:43 PM



<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

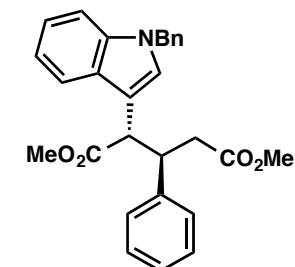
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	17.249	192681	6303	4.267	6.091
2	21.476	4322727	97175	95.733	93.909
Total		4515408	103478	100.000	100.000

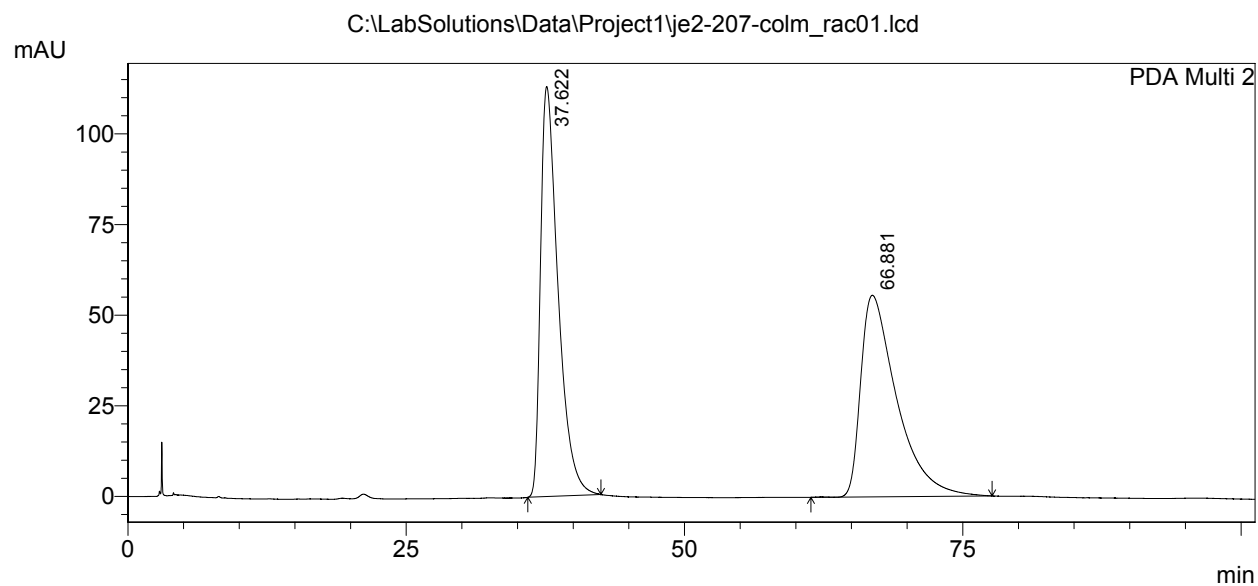
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-207-colm_rac01.lcd

Acquired by : Admin
 Sample Name : je2-207-colm_rac
 Sample ID : je2-207-colm_rac
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je2-207-colm_rac01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 9/15/2014 9:16:57 AM
 Data Processed : 9/15/2014 10:58:15 AM

**6i****methyl ester**

<Chromatogram>



PeakTable

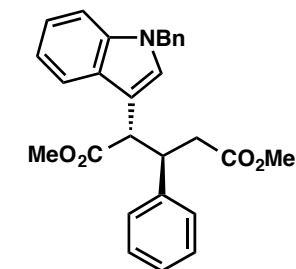
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	37.622	12401362	113128	49.864	67.041
2	66.881	12469076	55617	50.136	32.959
Total		24870438	168745	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\je2-229-ent03.lcd

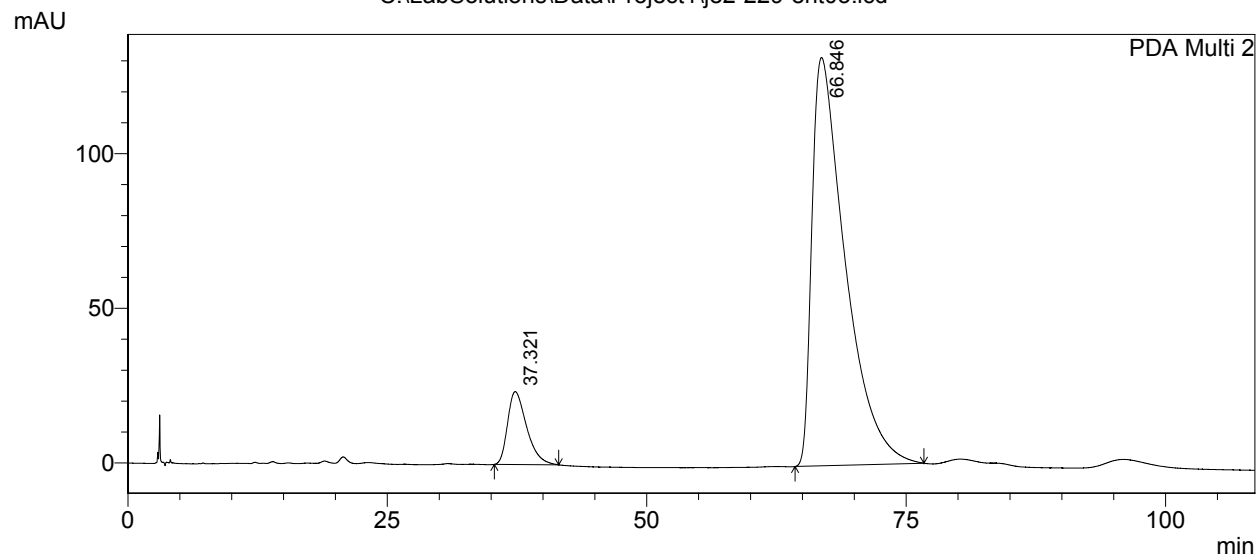
Acquired by : Admin
 Sample Name : je2-229-ent
 Sample ID : je2-229-ent
 Vial # :
 Injection Volume : 10 uL
 Data File Name : je2-229-ent03.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 10/20/2014 5:52:17 PM
 Data Processed : 10/20/2014 7:40:58 PM



6i
methyl ester

<Chromatogram>

C:\LabSolutions\Data\Project1\je2-229-ent03.lcd



1 PDA Multi 2/215nm 4nm

PeakTable

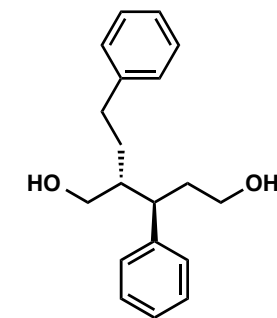
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	37.321	3011543	23575	9.261	15.148
2	66.846	29505404	132055	90.739	84.852
Total		32516947	155630	100.000	100.000

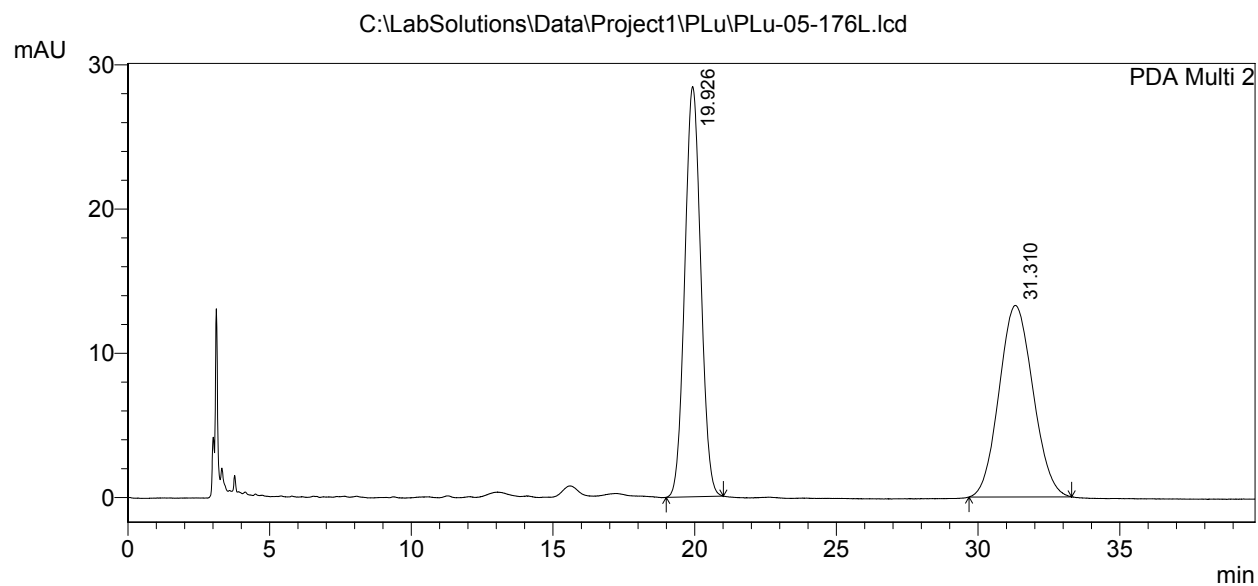
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-176L.lcd

Acquired by : Admin
Sample Name : PLu-05-176
Sample ID : PLu-05-176
Vial # :
Injection Volume : 10 uL
Data File Name : PLu-05-176L.lcd
Method File Name : ATH-OD-J-analytical-hplc.lcm
Batch File Name :
Report File Name : Default.lcr
Data Acquired : 8/29/2014 11:09:42 AM
Data Processed : 8/29/2014 11:49:29 AM

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<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

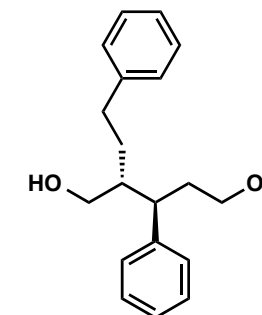
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	19.926	1116556	28452	50.279	68.183
2	31.310	1104174	13277	49.721	31.817
Total		2220731	41729	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

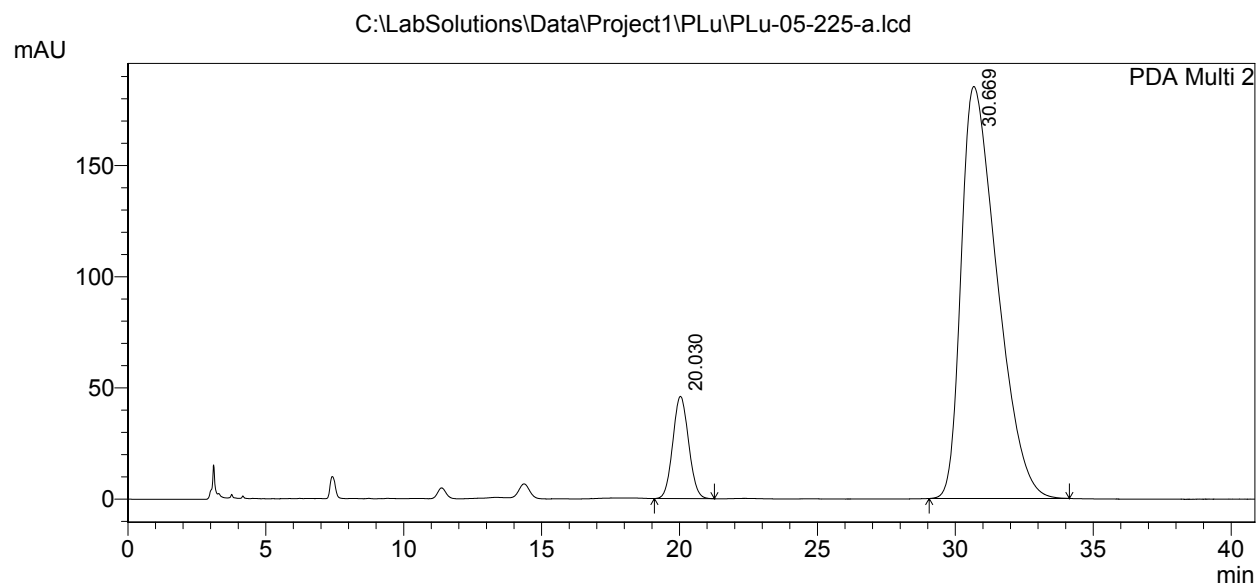
C:\LabSolutions\Data\Project1\PLu\PLu-05-225-a.lcd

Acquired by : Admin
 Sample Name : PLu-05-225
 Sample ID : PLu-05-225
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-225-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 8/29/2014 9:59:29 AM
 Data Processed : 8/29/2014 12:51:14 PM



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<Chromatogram>



1 PDA Multi 2/215nm 4nm

PeakTable

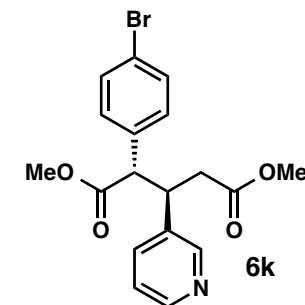
PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	20.030	1834846	45966	9.857	19.882
2	30.669	16779572	185230	90.143	80.118
Total		18614417	231196	100.000	100.000

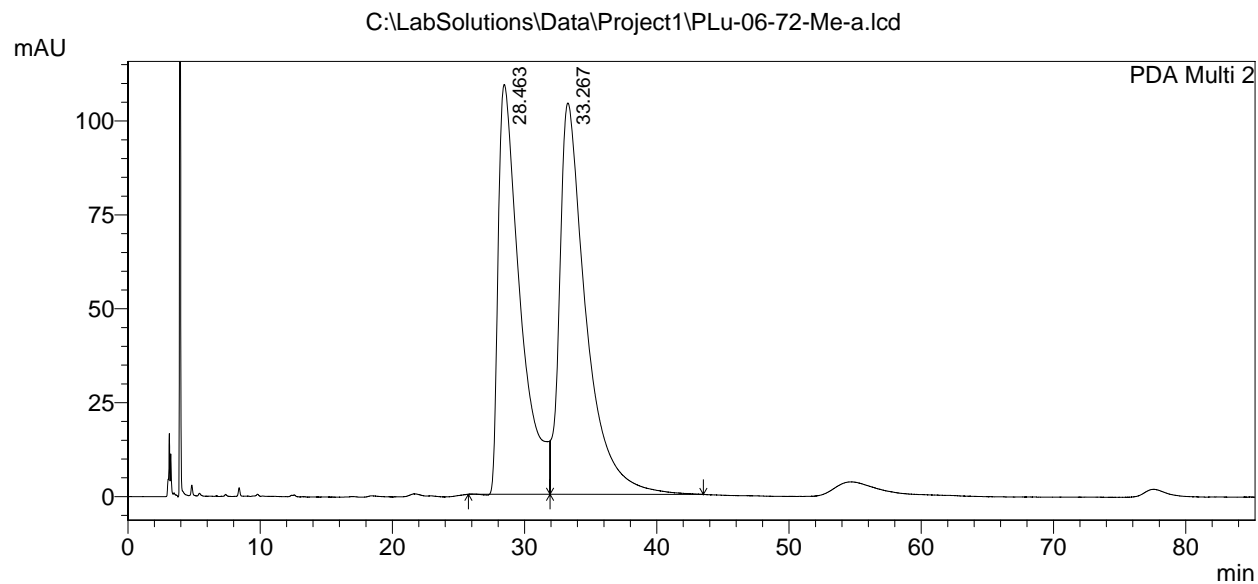
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu-06-72-Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-06-72-Me
 Sample ID : PLu-06-72-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-06-72-Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 1/2/2015 11:53:36 AM
 Data Processed : 1/2/2015 1:18:53 PM

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<Chromatogram>



PeakTable

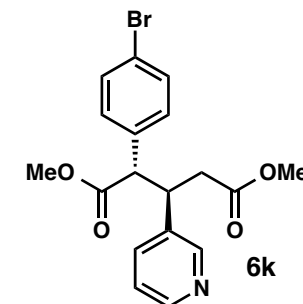
PDA Ch2 210nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	28.463	12585367	109122	46.545	51.154
2	33.267	14453549	104198	53.455	48.846
Total		27038917	213320	100.000	100.000

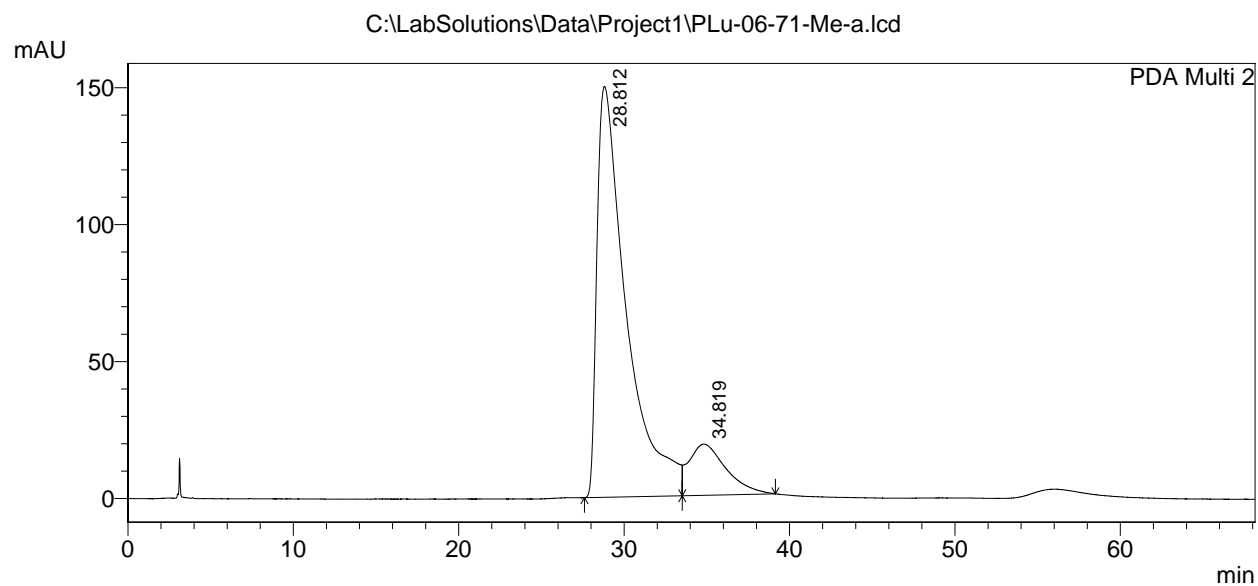
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu-06-71-Me-a.lcd

Acquired by : Admin
 Sample Name : PLu-06-71-Me
 Sample ID : PLu-06-71-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-06-71-Me-a.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 1/2/2015 10:43:14 AM
 Data Processed : 1/2/2015 11:51:25 AM

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<Chromatogram>



PeakTable

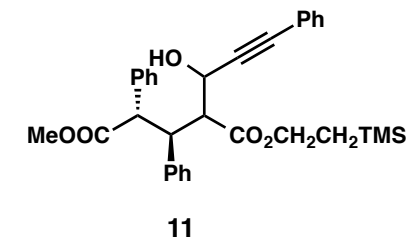
PDA Ch2 210nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	28.812	18469217	150011	86.337	88.922
2	34.819	2922714	18689	13.663	11.078
Total		21391931	168701	100.000	100.000

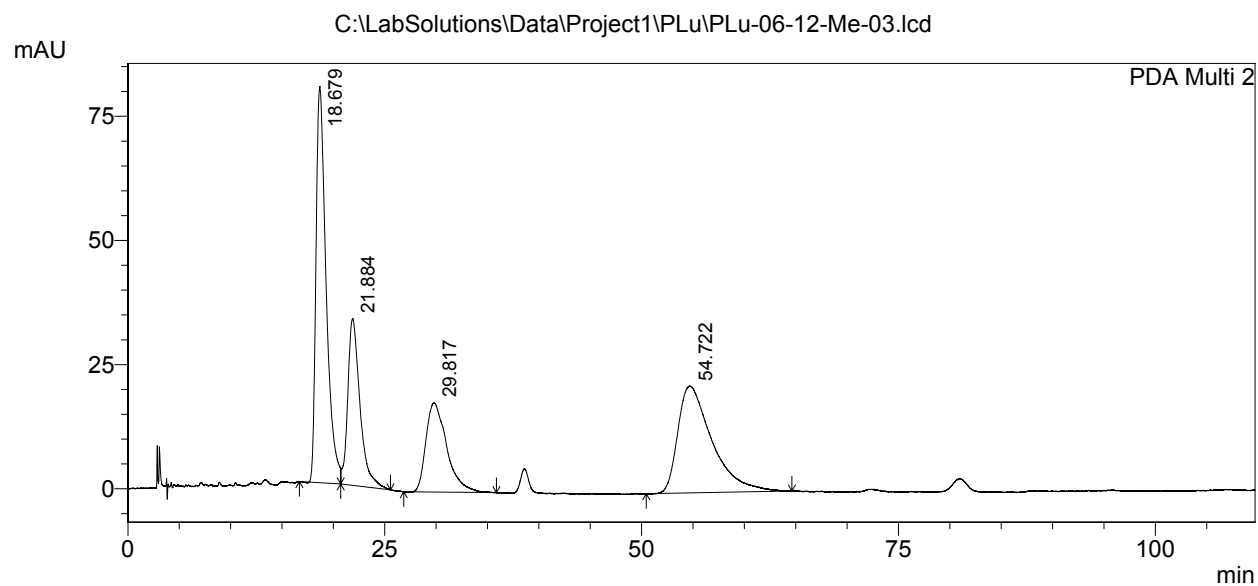
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-06-12-Me-03.lcd

Acquired by : Admin
 Sample Name : PLu-06-12-Me
 Sample ID : PLu-06-12-Me
 Vail # :
 Injection Volume : 10 uL
 Data File Name : PLu-06-12-Me-03.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
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 Data Processed : 10/31/2014 11:43:52 AM



<Chromatogram>



PeakTable

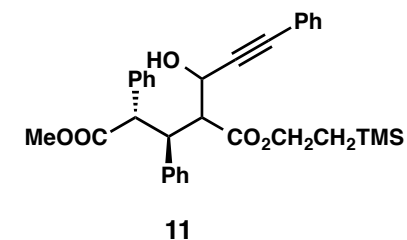
PDA Ch2 210nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	18.679	5473122	79790	34.795	52.200
2	21.884	2778905	33584	17.667	21.971
3	29.817	2521658	17965	16.031	11.753
4	54.722	4955859	21516	31.507	14.076
Total		15729545	152855	100.000	100.000

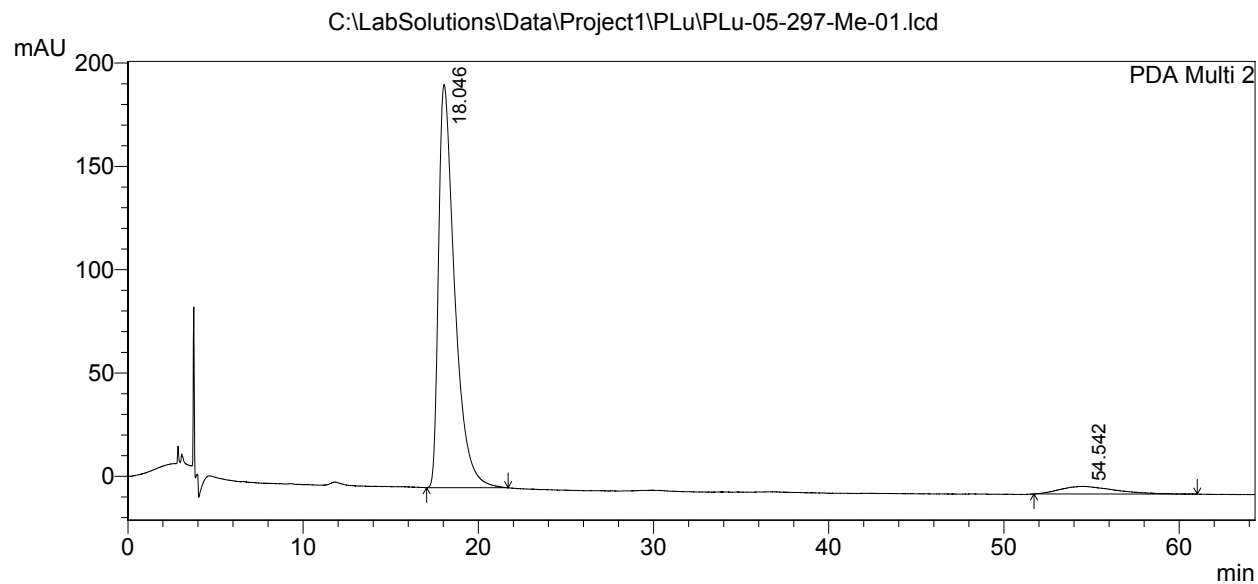
==== Shimadzu LCsolution Analysis Report ====

C:\LabSolutions\Data\Project1\PLu\PLu-05-297-Me-01.lcd

Acquired by : Admin
 Sample Name : PLu-05-297-Me
 Sample ID : PLu-05-297-Me
 Vial # :
 Injection Volume : 10 uL
 Data File Name : PLu-05-297-Me-01.lcd
 Method File Name : ATH-OD-J-analytical-hplc.lcm
 Batch File Name :
 Report File Name : Default.lcr
 Data Acquired : 10/31/2014 1:20:42 PM
 Data Processed : 10/31/2014 2:25:04 PM



<Chromatogram>



PeakTable

PDA Ch2 215nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	18.046	12459047	195156	93.974	98.145
2	54.542	798981	3689	6.026	1.855
Total		13258028	198845	100.000	100.000